AUTHOR INDEX

A

Abdalla, A. A. *See* Osman, S. A. A., **72:** 68
Abernethy, Darrell R. *See* Ameer, Barbara, **72:** 955
—; Greenblatt, David J.: Diphenhydramine determination in human plasma by gas–liquid chromatography using nitrogen–phosphorus detection: application to single low-dose pharmacokinetic studies, **72:** 941
Aboulwafa, Omaima M. *See* Ibrahim, El-Sebaii A., **72:** 1205
Abraham, Isaac; Hilchie, Jane C.; Mezei, Michael: Pharmacokinetic profile of intravenous liposomal triamcinolone acetonide in the rabbit, **72:** 1412
Acree, William E., Jr.; McHan, Danny R.; Rytting, J. Howard: Thermochemical investigations of associated solutions: calculation of solute–solvent equilibrium constants from solubility measurements, **72:** 929
—; Rytting, J. Howard: Solubility in binary solvent systems III: predictive expressions based on molecular surface areas, **72:** 292
Adams, Wade J.; Bombardt, Paul A.; Code, Robert A.: Absorption of triazolam from pelleted drug–diet mixtures by the mouse: quantitation of α-hydroxytriazolam in urine, **72:** 1185
Alaib, M. O. *See* Osman, S. A. A., **72:** 68
Alexander, J. *See* Sloan, K. B., **72:** 372
Alich, Agnes A.; Welsh, Victoria J.; Wittmers, Lorentz E., Jr.: Comparison of aspirin and copper aspirinate with respect to gastric mucosal damage in the rat, **72:** 1457
Allerheiligen, S. R. B. *See* Ludden, T. M., **72:** 693
Allhands, Roger A. *See* Theodorakis, Michael C., **72:** 580
Alliger, Cheryl L. *See* Burrows, Gregory W., **72:** 1212
Al-Moslih, M. I. *See* Dubes, G. R., **72:** 300
Almquist, Ronald G.; Christie, Pamela H.; Chao, Wan-Ru; Johnson, Howard L.: Synthesis and bilogical activity of an amino analogue of a tripeptide inhibitor of angiotensin-converting enzyme, **72:** 63
Alston, Treva *See* Shah, Vinod P., **72:** 306
Altmayer, Paul; Garrett, Edward R.: Plasmolysis, red blood cell partitioning, and plasma protein binding of etofibrate, clofibrate, and their degradation products, **72:** 1309
Amaro, A. A. *See* Chowhan, Z. T., **72:** 1097
Ameer, Barbara; Divoll, Marcia; Abernethy, Darrell R.; Greenblatt, David J.; Shargel, Leon: Absolute and relative bioavailability of oral acetaminophen preparations, **72:** 955
Amer, Tahani, M. *See* Richheimer, Steven L., **72:** 1349
Amidon, G. L. *See* Van Campen, L., **72:** 1381, 1388, 1394
—; Lee, M.; Lee, H.: Intestinal absorption of amino acid derivatives: structural requirements for membrane hydrolysis, **72:** 943
Amin, Kirit *See* Mauger, John W., **72:** 190
Anders, R.; Merkle, H. P.; Schurr, W.; Ziegler, R.: Buccal absorption of protirelin: an effective way to stimulate thyrotropin and prolactin, **72:** 1481
Andersen, O.; Nielsen, M. K.; Eriksen, P. B.; Fenger, M.; Knudsen, P. J.: Absorption kinetics and steady-state plasma concentrations of theophylline following therapeutic doses of two sustained-release preparations, **72:** 158
Anderson, B. D.; Conradi, R. A.; Johnson, K.: Influence of premicellar and micellar association on the reactivity of methylprednisolone 21-hemiesters in aqueous solution, **72:** 448
Anderson, N. H.; Davis, Stanley S.; James, M.; Kojima, I.: Thermodynamics of distribution of *p*-substituted phenols between aqueous solution and organic solvents and phospholipid vesicles, **72:** 443
Ando, Yutaka *See* Kawashima, Yoshiaki, **72:** 514
Andrade, J. D. *See* Quinn, R., **72:** 1472
Andreani, Aldo; Scapini, Giancarlo; Galatulas, Iraklis; Bossa, Rosaria: Potential antitumor agents IX: synthesis and antitumor activity of two analogues of ketocaine, **72:** 814
Andrews, A. H. *See* Hempenstall, J. M., **72:** 668
Angellotti, Jon *See* Park, George B., **72:** 817
Anthony, G. *See* Gaddipati, Nehru, **72:** 1398
Arison, B. H. *See* Vandenheuvel, W. J. A., **72:** 782
Arturson, Per; Laakso, Timo; Edman, Peter: Acrylic microspheres *in vivo* IX: blood elimination kinetics and organ distribution of microparticles with different surface characteristics, **72:** 1415
Asali, L. A. *See* Hindmarsh, K. W., **72:** 1039
Augsburger, Larry L.; Shangraw, Ralph F.; Giannini, R. P.; Shah, Vinod P.; Prasad, Vadlamani K.; Brown, Daniel: Thiazides VIII: dissolution survey of marketed hydrochlorothiazide tablets, **72:** 876
Aungst, Bruce J.; Fung, Ho-Leung: Inhibition of oral lead absorption in rats by phosphate-containing products, **72:** 345
Avery, Denis S. *See* Tozer, Thomas N., **72:** 1442
Avram, Michael J.; Fragen, Robert J.; Linde, Harry W.: High-performance liquid chromatographic assay for etomidate in human plasma: results of preliminary clinical studies using etomidate for hypnosis in total intravenous anesthesia, **72:** 1424
Awazu, Shoji *See* Sugiyama, Yuichi, **72:** 871
Azibi, M.; Draguet-Brughmans, M.; Bouche, R.; Tinant, B.; Germain, G.; Declercq, J. P.; Van Meerssche, M.: Conformational study of two polymorphs of spiperone: Possible consequences on the interpretation of pharmacological activity, **72:** 232

B

Baasiri, Ghassan M. *See* Bikhazi, A. B., **72:** 296
Baaske, David M.; Karnatz, Nancy N.; Carter, James E.: High-performance liquid chromatographic assay for partially nitrated glycerins in nitroglycerin, **72:** 194
Baba, Shigeo; Furuta, Takashi; Fujioka, Minoru; Goromaru, Tsuyoshi: Studies on drug metabolism by use of isotopes XXVII: urinary metabolites of rutin in rats and the role of intestinal microflora in the metabolism of rutin, **72:** 1155
Babar, Almas; Jarowski, C. I.: Solid dispersions of testosterone with reduced presystemic inactivation, **72:** 708
Badawi, Mohammed M.; Handa, Sukhdev S.; Kinghorn, A. Douglas; Cordell, Geoffrey A.; Farnsworth, Norman R.: Plant anticancer agents XXVII: antileukemic and cytotoxic constituents of *Dirca occidentalis* (Thymelaeaceae), **72:** 1285
Bado, B. *See* Kowarski, C. R., **72:** 692
Bailey, Keith; Menzies, Allan; Watanabe, Hisako: Structure of the isonicotinyl hydrazone of norethindrone, **72:** 1084
Bakar, Shamsul K.; Niazi, Sarfaraz: Effect of water deprivation on aspirin disposition kinetics, **72:** 1030
—; Niazi, Sarfaraz: High-performance liquid chromatographic determination of aspirin and its metabolites in plasma and urine, **72:** 1020
—; Niazi, Sarfaraz: Simple reliable method for chronic cannulation of the jugular vein for pharmacokinetic studies in rats, **72:** 1027
—; Niazi, Sarfaraz: Stability of aspirin in different media, **72:** 1024
Baker, John K. *See* Clark, Alice M., **72:** 1288; Hufford, Charles D., **72:** 92
Ballard, Frances *See* Tse, Francis L. S., **72:** 311
Banfield, Christopher; Rowland, Malcolm: Stereospecific high-performance liquid chromatographic analysis of warfarin in plasma, **72:** 921
Bansal, N. P.; Holleran, E. M.; Jarowski, C. I.: Stabilizing effect of fructose on aqueous solutions of hydrocortisone, **72:** 1079
Barnett, Gene *See* Chiang, Chia-Whei N., **72:** 136
Barron, Robert P. *See* Ohashi, Mamoru, **72:** 508
Basak, S. C.; Gieschen, D. P.; Harriss, D. K.; Magnuson, V. R.: Physicochemical and topological correlates of the enzymatic acetyltransfer reaction, **72:** 934
Bass, Ludvik: Models of hepatic drug elimination, **72:** 1229
Bateh, Ricky P.; Winefordner, J. D.: Room temperature phosphorescence determination of propranolol in pharmaceutical formulations, **72:** 559
Bates, Robert B. *See* Petroski, Richard J., **72:** 1291
Batra, Vijay K.; Morrison, John A.; Hoffman, Thomas R.: Pharmacokinetics of piperacillin and gentamicin following intravenous administration to dogs, **72:** 894
Bauer, John; Krogh, Suzanne: High-performance liquid chromatographic stability-indicating assay for naphazoline and tetrahydrozoline in ophthalmic preparations, **72:** 1347
—; Quick, John; Krogh, Suzanne; Shada, Douglas: Stability-indicating assay for chlorthalidone formulation: evaluation of the USP analysis and a high-performance liquid chromatographic analysis, **72:** 924
Bauer, Larry A.; Gibaldi, Milo: Computation of model-independent pharmacokinetic parameters during multiple dosing, **72:** 978
Beasley, Martin W.; Skierkowski, Paul; Cleary, Robert W.; Jones, Alan B.; Kibbe, Arthur H.: Comparison of high-performance liquid chromatography and radioimmunoassay in the determination of content uniformity of digoxin tablets, **72:** 505
Behl, Charanjit R.; El-Sayed, Abdel Aziz; Flynn, Gordon L.: Hydration and percutaneous absorption IV: influence of hydration on *n*-alkanol permeation through rat skin; comparison with hairless and Swiss mice, **72:** 79
—; Linn, Edward E.; Flynn, Gordon L.; Ho, Norman F. H.; Higuchi, William I.; Pierson, Carl L.: Permeation of skin and eschar by antiseptics II: influence of controlled burns on the permeation of phenol, **72:** 397
—; Linn, Edward E.; Flynn, Gordon L.; Pierson, Carl L.; Higuchi, William I.; Ho, Norman F. H.: Permeation of skin and eschar by antiseptics I: baseline studies with phenol, **72:** 391

Bekersky, Ihor *See* Colburn, Wayne A., **72:** 970
Bélanger, Pierre M.; Lalande, Marcel; Doré, François; Labrecque, Gaston: Rapid gas chromatographic determination of serum salicylates after silylation, **72:** 1092
Benet, Leslie Z. *See* Park, George B., **72:** 817
Benigni, Daniel A. *See* Elsohly, Mahmoud A., **72:** 792
Benjamin, Eric J.; Kroeten, Joseph J.; Shek, Efraim: Characterization of spray patterns of inhalation aerosols using thin-layer chromatography, **72:** 380
Bennett, J. *See* Pascucci, V. L., **72:** 1467
Benson, G. Anthony *See* Spillane, William J., **72:** 852
Benson, Walter R. *See* Fry, Fred S, Jr., **72:** 568; Ohashi, Mamoru, **72:** 508
Berge, S. M.; Henderson, N. L.; Frank, M. J.: Kinetics and mechanism of degradation of cefotaxime sodium in aqueous solution, **72:** 59
Bhise, S. B.; Marwadi, P. R.; Mathur, S. S.; Srivastava, R. C.: Liquid membrane phenomenon in reserpine action, **72:** 599
Bickers, D. R. *See* Kikuchi, O., **72:** 800; Nakata, Y., **72:** 809
Bikhazi, A. B.; Baasiri, Ghassan M.; Boulos, Nabil Z.; Khuri, Raja N.: Transport of prostaglandins through normal and diabetic rat hepatocytes, **72:** 296
—; Nubani, H. M.; Coe, E. L.: Effect of insulin and dinoprostone on D-glucose and 2-deoxy-D-glucose uptake by normal and diabetic rat hepatocytes, **72:** 116
Birmingham, B. K.; Greene, D. S.: Analysis of folinic acid in human serum using high-performance liquid chromatography with amperometric detection, **72:** 1306
Bjornsson, Thorir D. *See* Cocchetto, David M., **72:** 465
Blanchard, James *See* Hochman, David, **72:** 975
Block, John H.: review of "Analytical Profiles of Drug Substances, Vol. 10", **72:** 101
review of "Modern Methods of Pharmaceutical Analysis", **72:** 582
Bockbrader, Howard N.; Reuning, Richard H.: Spectral analysis of the configuration and solution conformation of dihydrodigoxigenin epimers, **72:** 271
Bodnar, J. E.; Chen, J. R.; Johns, W. H.; Mariani, E. P.; Shinal, E. C.: High-performance liquid chromatographic determination of vincristine sulfate in preformulation studies, **72:** 535
Bodor, N. *See* Sloan, K. B., **72:** 372
Bogardus, Joseph B.: Crystalline anhydrous–hydrate phase changes of caffeine and theophylline in solvent–water mixtures, **72:** 837
Liquid crystal solubilization of cholesterol: potential method for gallstone dissolution, **72:** 338
Boldt, Karl G. *See* Brine, George A., **72:** 700
Bolton, Sanford: Computation of in-house quality control limits for pharmaceutical dosage forms based on product variability, **72:** 405
Factorial designs in pharmaceutical stability studies, **72:** 362
review of "Good Manufacturing Practices for Pharmaceuticals—A Plan for Total Quality Control. 2nd Ed.", **72:** 842
Bombardt, Paul A. *See* Adams, Wade J., **72:** 1185
Bonsen, P. *See* Theeuwes, F., **72:** 253
Borazan, Hanna N.; Koumriqian, Sona N.: Coil→helix transition in polyadenylic acid induced by the binding of epinephrine, norepinephrine, and isoproterenol: circular dichroism study, **72:** 1450
Boring, Suzanne; Johnson, Francis; Chen, Jack; Klett, Robert; Raisfeld-Danse, Ilene H.: Drug interactions I: detection of inorganic nitrite in organic nitrate esters under acidic conditions simulating the human stomach, **72:** 1064
Bossa, Rosaria *See* Andreani, Aldo, **72:** 814
Bouche, R. *See* Azibi, M., **72:** 232
Boulos, Nabil Z. *See* Bikhazi, A. B., **72:** 296
Bourdais, J. *See* Ibrahim, El-Sebaii A., **72:** 1205; Omar, A.-Mohsen M. E., **72:** 1226
Braddock, P. D. *See* Taylor, P., **72:** 1477
Brashear, R. E. *See* Veng-Pedersen, Peter, **72:** 576, 951
Brazzell, Romulus K. *See* Colburn, Wayne A., **72:** 970
—; Kaplan, Stanley A.: Factors affecting the accuracy of estimated mean absorption times and mean dissolution times, **72:** 713
Bree, F. *See* Houin, G., **72:** 71
Briggs, Colin J.; Hubbard, John W.; Savage, Catherine; Smith, Diane: Improved procedure for the determination of protein binding by conventional equilibrium dialysis, **72:** 918
Brine, Dolores *See* Chiang, Chia-Whei N., **72:** 136
Brine, George A.; Boldt, Karl G.: Synthesis and anticonvulsant screening of 3,3-diphenyl-2-pyrrolidone derivatives, **72:** 700
Brodersen, Rolf; Ebbesen, Finn: Bilirubin-displacing effect of ampicillin, indomethacin, chlorpromazine, gentamicin, and parabens *in vitro* and in newborn infants, **72:** 248
Brooks, Jack C. *See* Burke, David H., **72:** 824
Brossard, C.; Lefort Des Ylouses, D.; Duchêne, D.; Puisieux, F.; Carstensen, J. T.: Dissolution of a soluble drug substance from vinyl polymer matrices, **72:** 162
Brown, Daniel *See* Augsburger, Larry L., **72:** 876
Brown, L. R.; Wei, C. L.; Langer, Robert: *In vivo* and *in vitro* release of macromolecules from polymeric drug delivery systems, **72:** 1181
Brown, M. R. W. *See* Cozens, R. M., **72:** 1363
Browne, M. K. *See* Knight, B. I., **72:** 705
Brunk, Ulf *See* Edman, Peter, **72:** 658
Bundgaard, Hans *See* Johansen, Marianne, **72:** 1294
Burch, Patrick G. *See* Stanski, Donald R., **72:** 937
Buri, P. *See* Korsmeyer, R. W., **72:** 1189
Burke, David H.; Brooks, Jack C.; Treml, Suzanne B.: Cobaltous chloride-induced hypothermia in mice III: effect of pretreatment with 5-hydroxytryptaminergic agents, **72:** 824
Burkman, A. M. *See* Sokoloski, T. D., **72:** 335
Burns, H. Donald *See* Guilarte, Tomas R., **72:** 90
Burrows, Gregory W.; Alliger, Cheryl L.: High-performance liquid chromatographic determination of cyproheptadine hydrochloride in tablet formulations, **72:** 1212
Bush, Ernie; Trager, William F.: High-yield synthesis of warfarin and its phenolic metabolites: new compounds, **72:** 830
Buydens, L.; Coomans, D.; Vanbelle, M.; Massart, D. L.; Vanden Driessche, R.: Comparative study of topological and linear free energy-related parameters for the prediction of GC retention indices, **72:** 1327
Byun, Si Myung *See* Kim, Hyun Pyo, **72:** 225

C

Cabana, Bernard E. *See* Prasad, Vadlamani K., **72:** 42; Ringhand, H. P., **72:** 1409; Shah, Vinod P., **72:** 306, 309
Assessment of 75/75 rule: FDA viewpoint, **72:** 98
Caldwell, Larry J. *See* Fix, Joseph A., **72:** 1134
Capizzi, Thomas; Mehta, Hina; Oppenheimer, Leonard: Model-independent procedure for area estimation and intergroup comparisons, **72:** 995
Carbone, John *See* Dixon, Ross, **72:** 100
Carelli, V.; Di Colo, G.: Effect of different water-soluble additives on water sorption into silicone rubber, **72:** 316
Carnevale, Laura: Simultaneous determination of acetaminophen, guaifenesin, pseudoephedrine, pholcodine, and paraben preservatives in cough mixture by high-performance liquid chromatography, **72:** 196
Carrie, T. R.; Sanders, G. A.: An automated sampling device for dissolution testing, **72:** 976
Carstensen, J. T. *See* Brossard, C., **72:** 162
—; Kothari, Rohit C.: Solid-state decomposition of alkoxyfuroic acids in the presence of microcrystalline cellulose, **72:** 1149
—; Mehta, Ashok; Zoglio, M. A.: Correlation between dissolution and disintegration in dissolution apparatuses, **72:** 208
Carter, James E. *See* Baaske, David M., **72:** 194
Celio, Lee A.; DiGregorio, G. John; Ruch, Eileen; Pace, Joseph N.; Piraino, Anthony J.: 5-Fluorouracil concentrations in rat plasma, parotid saliva, and bile and protein binding in rat plasma, **72:** 597
Chan, Keith K. H.; Miller, Kenneth W.: Nonlinear regression approach for determining whether absorption and elimination rate constants are equal in the one-compartment open model with first-order processes, **72:** 574
Chandrasegaran, Srinivasan *See* Zon, Gerald, **72:** 687
Chaney, S. G. *See* Hall, I. H., **72:** 626
Chang, Shaw F.; Welscher, Teresa M.; Ober, Robert E.: Analysis of theophylline by automated multidimensional high-performance liquid chromatography involving direct plasma injection, **72:** 236
Chang, Shih-Ling *See* Wedlund, Peter J., **72:** 860
Chang, Yunik *See* Hacker, Bruce, **72:** 902, 1225
Chao, Wan-Ru *See* Almquist, Ronald G., **72:** 63
Chapman, James M., Jr. *See* Cocolas, George H., **72:** 812; Hall, I. H., **72:** 845, 1192
—; Cocolas, George H.; Hall, I. H.: Hypolipidemic activity of phthalimide derivatives IV: further chemical modification and investigation of the hypolipidemic activity of *N*-substituted imides, **72:** 1344
Charles, B. G.; Ravenscroft, P. J.: A new method for assaying propantheline and its degradation product, xanthene-9-carboxylic acid using high-performance liquid chromatography, **72:** 96
Chatterji, D. C. *See* Pascucci, V. L., **72:** 1467
Chavez, L. *See* Houlsby, R. D., **72:** 1401
Chen, Ching-Hsiu; Nelson, Wendel L.: Chemical aspects of propranolol metabolism: 1,1-diethoxy-3-(1-naphthoxy)-2-propanol and related ring-closure products *cis*- and *trans*-4-ethoxy-3-hydroxy-3,4-dihydro-2*H*-naphtho[1,2-*b*]pyran, **72:** 863
Chen, J. R. *See* Bodnar, J. E., **72:** 535
Chen, Jack *See* Boring, Suzanne, **72:** 1064
Chen, Mei-Ling; Lee, Myung G.; Chiou, Win L.: Pharmacokinetics of drugs in blood III: metabolism of procainamide and storage effect of blood samples, **72:** 572
Chen, Ming-Meei; Lee, Charles; Imamura, Yorishige; Perrin, John H.: Acetaminophen–aluminum hydroxide interaction in rabbits, **72:** 828
Chi, Li-hua *See* Chowhan, Z. T., **72:** 1097
Chiang, Chia-Whei N.; Barnett, Gene; Brine, Dolores: Systemic absorption of Δ^9-tetrahydrocannabinol after opthalmic administration to the rabbit, **72:** 136
Chien, Yie W.; Keshary, Prakash R.; Huang, Yih-Chain; Sarpotdar, Pramod P.: Comparative controlled skin permeation of nitroglycerin from marketed transdermal delivery systems, **72:** 968
Chiou, Win L. *See* Chen, Mei-Ling, **72:** 572; Huang, Yih-Chain, **72:** 836

Mean hepatic transit time in the determination of mean absorption time, **72:** 1365
Cho, M. J.; Scahill, T. A.; Hester, J. B., Jr.: Kinetics and equilibrium of the reversible alprazolam ring-opening reaction, **72:** 356
Chou, Ruby C.; Wiegand, Ulf W.; Lele, Amol S.; Levy, Gerhard: Changes in plasma protein binding of drugs after blood collection from pregnant women, **72:** 716
—; Wiegand, Ulf W.; Soda, David M.; Levy, Gerhard: Hepatic extraction of free fatty acids in pregnant and nonpregnant female rats, **72:** 1230
Chowhan, Z. T.; Yang, I.-C.: Effect of intergranular *versus* intragranular cornstarch on tablet friability and *in vitro* dissolution, **72:** 983
—; Yang, I.-C.; Amaro, A. A.; Chi, Li-hua: A rebuttal on a second-degree polynomial mathematical model used to evaluate the effect of moisture and crushing strength on tablet friability and *in vitro* dissolution, **72:** 1097
Christensen, J. M. *See* Zupon, M. A., **72:** 1323
Christie, Pamela H. *See* Almquist, Ronald G., **72:** 63
Chu, John Yeou-Ruoh *See* Kornet, Milton J., **72:** 94, 1213
Chung, Hyun Ho *See* Yu, Byung Sul, **72:** 592
Ciociola, Arthur A.; Gautieri, Ronald F.: Evaluation of the teratogenicity of morphine sulfate administered *via* a miniature implantable pump, **72:** 742
Cipiciani, Antonio; Ebert, Cynthia; Linda, Paolo; Rubessa, Fulvio; Savelli, Gianfranco: Kinetics and mechanism of the basic hydrolysis of indomethacin and related compounds: a reevaluation, **72:** 1075
Clark, Alice M. *See* Hufford, Charles D., **72:** 92
—; Clinton, Robert T.; Baker, John K.; Hufford, Charles D.: Demethylation of imipramine by enteric bacteria, **72:** 1288
Cleary, Robert W. *See* Beasley, Martin W., **72:** 505
Clinton, Robert T. *See* Clark, Alice M., **72:** 1288
Cocchetto, David M.; Bjornsson, Thorir D.: Methods for vascular access and collection of body fluids from the laboratory rat, **72:** 465
Cocolas, George H. *See* Chapman, James M., Jr., **72:** 1344; Hall, I. H., **72:** 845, 1192
—; Chapman, James M., Jr.; Voorstad, P. Josée; Hall, I. H.: Hypolipidemic activity of substituted 2-pyrrolidinones in rodents, **72:** 812
Code, Robert A. *See* Adams, Wade J., **72:** 1185
Coe, E. L. *See* Bikhazi, A. B., **72:** 116
Cohen, Sasson *See* Liron, Zvi, **72:** 499
Colaizzi, John L. *See* Mathur, Leo K., **72:** 1071
Colburn, Wayne A. *See* Jack, M. L., **72:** 1318
Albumin binding and hepatic uptake: the importance of model selection—a response, **72:** 1233
Estimating the accumulation of drugs, **72:** 833
First-pass, formation-rate-limiting metabolism, **72:** 711
—; Brazzell, Romulus K.; Bekersky, Ihor: Organ perfusion studies, **72:** 970
Connors, Kenneth A. *See* Eboka, Chukwuenweniwe J., **72:** 366; Lin, Shu-Fen, **72:** 1333; Wong, Albert B., **72:** 388; Wong, Michelle P., **72:** 146
review of "Proceedings of the First International Symposium on Cyclodextrins. (Budapest, Hungary, 30 September–2 October 1981)", **72:** 1234
—; Eboka, Chukwuenweniwe J.: Solvent effects on the cinnamoylation of *n*-propyl alcohol catalyzed by *N*-methylimidazole and 4-dimethylaminopyridine, **72:** 369
Conradi, R. A. *See* Anderson, B. D., **72:** 448
Coomans, D. *See* Buydens, L., **72:** 1327
Cooper, J. K. *See* Midha, Kamal K., **72:** 736
—; McKay, G.; Midha, Kamal K.: Subnanogram quantitation of chlorpromazine in plasma by high-performance liquid chromatography with electrochemical detection, **72:** 1259
Cordell, Geoffrey A. *See* Badawi, Mohammed M., **72:** 1285
Cosyns, L.; Spain, M.; Kraml, M.: Sensitive high-performance liquid chromatographic method for the determination of etodolac in serum, **72:** 275
Counsell, R. E. *See* Damle, N. S., **72:** 898
Cox, Don C.; Furman, William B.; Page, Donald P.: Systematic error associated with Apparatus 2 of the USP dissolution test IV: effect of air dissolved in the dissolution medium, **72:** 1061
—; Furman, William B.; Thornton, Larry K.; Moore, Terry W.; Jefferson, Everett H.: Systematic error associated with Apparatus 2 of the USP dissolution test III: limitations of calibrators and the USP suitability test, **72:** 910
Cozens, R. M.; Brown, M. R. W.: Effect of nutrient depletion on the sensitivity of *Pseudomonas cepacia* to antimicrobial agents, **72:** 1363
Crooks, P. A. *See* Daoud, N. N., **72:** 290
Curran, N. M. *See* Lovering, E. G., **72:** 965; Matsui, F., **72:** 1223
Czok, R. *See* Kreuter, Jörg, **72:** 1146

D

Daly, Robert E. *See* Philip, Jose, **72:** 979
Damle, N. S.; Seevers, R. H.; Schwendner, S. W.; Counsell, R. E.: Potential tumor- or organ-imaging agents XXIV: chylomicron remnants as carriers for hepatographic agents, **72:** 898
Danielson, Douglas W.; Morehead, William T.; Rippie, Edward G.: Unloading and post-compression viscoelastic stress *versus* strain behavior of pharmaceutical solids, **72:** 342
Dannals, Robert F. *See* Guilarte, Tomas R., **72:** 90
Danti, August G. *See* Hwang, Chiaw-Chi, **72:** 857
Daoud, N. N.; Crooks, P. A.; Speak, R.; Gilbert, P.: Determination of benzalkonium chloride by chemical-ionization mass spectroscopy, **72:** 290
Davis, Patrick J. *See* Smith, Robert V., **72:** 733
Davis, Stanley S. *See* Anderson, N. H., **72:** 443; Illum, Lisbeth, **72:** 1086
Day, R. O. *See* Ray, J. E., **72:** 1403
DeAngelis, Nicholas J. *See* Reif, Van D., **72:** 1330
Declercq, J. P. *See* Azibi, M., **72:** 232
Derendorf, Hartmut; Garrett, Edward R.: High-performance liquid chromatographic assay of methadone, phencyclidine, and metabolites by postcolumn ion-pair extraction and on-line fluorescent detection of the counterion with applications, **72:** 630
Desiraju, Ravi K.; Renzi, Ned L., Jr.; Nayak, Ramchandra K.; Ng, Kung-Tat: Pharmacokinetics of chlorzoxazone in humans, **72:** 991
Devous, Michael, Sr. *See* Theodorakis, Michael C., **72:** 130
Dickerson, Ruth *See* Zon, Gerald, **72:** 687
Di Colo, G. *See* Carelli, V., **72:** 316
DiGregorio, G. John *See* Celio, Lee A., **72:** 597; Fruncillo, Richard J., **72:** 826
Dimmock, J. R.; Shyam, K.; Hamon, N. W.; Logan, B. M.; Raghavan, S. K.; Harwood, D. J.; Smith, P. J.: Evaluation of some Mannich bases derived from substituted acetophenones against P-388 lymphocytic leukemia and on respiration in isolated rat liver mitochondria, **72:** 887
Divoll, Marcia *See* Ameer, Barbara, **72:** 955
Dixon, Ross; Carbone, John; Tilley, Jeff; Liu, Yu-Ying: Radioimmunoassay for the new antiarrhythmic agent cibenzoline in human plasma, **72:** 100
Doelker, E. *See* Korsmeyer, R. W., **72:** 1189
Doré, François *See* Bélanger, Pierre M., **72:** 1092
Dorsey, Edwin D. *See* Dunn, Danny L., **72:** 277
Downes, Leanne M. *See* Pitman, Ian H., **72:** 218
Dowse, R.; Haigh, J. M.; Kanfer, I.: Determination of phenylpropanolamine in serum and urine by high-performance liquid chromatography, **72:** 1018
Draguet-Brughmans, M. *See* Azibi, M., **72:** 232
Dressman, J. B.; Himmelstein, K. J.; Higuchi, Takeru: Diffusion of phenol in the presence of a complexing agent, tetrahydrofuran, **72:** 12
Dubes, G. R.; Masoud, A. N.; Al-Moslih, M. I.: High-performance liquid chromatography of preparations of ribonucleic acid inactivator(s) from cupric ion and hydroquinone before and after treatment with histidine, **72:** 300
Duchêne, D. *See* Brossard, C., **72:** 162
Dunn, Danny L.; Jones, William J.; Dorsey, Edwin D.: Analysis of chlorobutanol in ophthalmic ointments and aqueous solutions by reverse-phase high-performance liquid chromatography, **72:** 277

E

Ebbesen, Finn *See* Brodersen, Rolf, **72:** 248
Ebert, Charles D. *See* Sato, Shuji, **72:** 228
Ebert, Cynthia *See* Cipiciani, Antonio, **72:** 1075
Eboka, Chukwuenweniwe J. *See* Connors, Kenneth A., **72:** 369
—; Connors, Kenneth A.: Kinetics and mechanism of hydroxy compound cinnamoylation in acetonitrile catalyzed by *N*-methylimidazole and 4-dimethylaminopyridine, **72:** 366
Edelson, Jerome *See* Park, George B., **72:** 817
Edman, Peter *See* Arturson, Per, **72:** 1415
—; Sjöholm, Ingvar: Acrylic microspheres *in vivo* VI: antitumor effect of microparticles with immobilized L-asparaginase against 6C3HED lymphoma, **72:** 654
—; Sjöholm, Ingvar: Acrylic microspheres *in vivo* VIII: distribution and elimination of polyacryldextran particles in mice, **72:** 796
—; Sjöholm, Ingvar; Brunk, Ulf: Acrylic microspheres *in vivo* VII: morphological studies on mice and cultured macrophages, **72:** 658
Egan, William *See* Zon, Gerald, **72:** 687
Ehrsson, Hans; Hassan, Moustapha: Determination of busulfan in plasma by GC–MS with selected-ion monitoring, **72:** 1203
Ekman, Bo *See* Källstrand, Göran, **72:** 772
El-Dawy, M. A.; Omar, A.-Mohsen M. E.; Ismail, Abla M.; Hazzaa, A. A. B.: Potential broad spectrum anthelmintics IV: design, synthesis, and antiparasitic screening of certain 3,6-disubstituted-(7*H*)-*s*-triazolo[3,4-*b*][1,3,4]thiadiazine derivatives, **72:** 45
El-Gamal, Safaa; Wollert, Uwe; Müller, Walter E.: Binding of several phenothiazine neuroleptics to a common binding site of α_1-acid glycoprotein, orosomucoid, **72:** 202
El-Mabrouk, Buthaina H. *See* Javaid, Karamat A., **72:** 82
El-Sayed, Abdel Aziz *See* Behl, Charanjit R., **72:** 79
El-Sewedy, S. M. *See* Ibrahim, El-Sebaii A., **72:** 1205
Elsohly, Mahmoud A.; Benigni, Daniel A.; Torres, Lolita; Watson, Edna S.: Synthesis and antiallergenic properties of 3-*n*-pentadecyl- and 3-*n*-heptadecylcatechol esters, **72:** 792
Elward, T. *See* Skinner, W. A., **72:** 1354

Emami Khoi, Abdol-Ali M.: Spectrophotometric promethazine hydrochloride determination using bromcresol green, **72:** 704
Eriksen, P. B. *See* Andersen, O., **72:** 158
Ezzedeen, F. W.; Stohs, S. J.; Masoud, A. N.: High-performance liquid chromatographic analysis of iodochlorohydroxyquin and hydrocortisone in ointments and creams, **72:** 1036

F

Faghihi, S. M. *See* Shafiee, A., **72:** 198
Fan, Allan C. *See* Hollenbeck, R. Gary, **72:** 325
Fang, S. M. *See* Zupon, M. A., **72:** 1323
Farnsworth, Norman R. *See* Badawi, Mohammed M., **72:** 1285
Farquhar, David; Srivastva, Devendra N.; Kuttesch, Nancy J.; Saunders, Priscilla P.: Biologically reversible phosphate-protective groups, **72:** 324
Farris, Fred F. *See* Shelver, William H., **72:** 1218
Faulkner, R. D.; Lee, Charles: Comparative assays for doxepin and desmethyldoxepin using high-performance liquid chromatography and high-performance thin-layer chromatography, **72:** 1165
Fekety, Karen B.; Medwick, Thomas: Quantitative analysis of ethchlorvynol in a capsule dosage form by NMR spectroscopy, **72:** 1358
Feldkamp, Joseph R. *See* Scholtz, Edward C., **72:** 973
Feldman, Stuart; Hedrick, Wyatt: Antacid effects on the gastrointestinal absorption of riboflavin, **72:** 121
Feldmann, Edward G.: Adverse drug reactions—a continuing problem, **72:** 585
A deserved recognition, **72:** 329
Food and pharmacy—a close relationship, **72:** 723
Keeping current with technology, **72:** 1237
Maintaining excellence in pharmacy education, **72:** 103
Neither black nor white, but very gray, **72:** 1101
New era for nonprescription drugs, **72:** 1373
Restoring the oracle of science, **72:** 211
Science, objectivity, and judgment uncompromised, **72:** 843
Scientific manpower—supply *versus* demand, **72:** 981
Scientists respond to Tylenol crisis, **72:** 1
The "weak link" in new drug research, **72:** 463
Fenger, M. *See* Andersen, O., **72:** 158
Fernandez-Alonso, J. I. *See* Ortiz, A., **72:** 50
Fix, Joseph A.; Leppert, Paula S.; Porter, Patricia A.; Caldwell, Larry J.: Influence of ionic strength on rectal absorption of gentamicin sulfate in the presence and absence of sodium salicylate, **72:** 1134
—; Porter, Patricia A.; Leppert, Paula S.: Involvement of active sodium transport in the rectal absorption of gentamicin sulfate in the presence and absence of absorption-promoting adjuvants, **72:** 698
Flanagan, D. R. *See* Parrott, Eugene L., **72:** 765
Fleming, Robert; Guy, Richard H.; Hadgraft, Jonathan: Kinetics and thermodyamics of interfacial transfer, **72:** 142
Floor, B. J. *See* Prosser, B. C., **72:** 1168
Florencio, F. *See* Galvez, E., **72:** 881
Fluehler, H.; Grieve, A. P.; Mandallaz, D.; Mau, J.; Moser, H. A.: Bayesian approach to bioequivalence assessment: an example, **72:** 1178
Flynn, Gordon L. *See* Behl, Charanjit R., **72:** 79, 391, 397; Hagen, T. A., **72:** 409
Foley, Kathleen M. *See* Grabinski, Patricia Y., **72:** 27
Forker, E. L.; Luxon, B. A.: Albumin binding and hepatic uptake: the importance of model selection, **72:** 1232
Forrest, Irene S. *See* Juenge, Eric C., **72:** 617
Fox, Jeffrey L. *See* Hsu, C. C., **72:** 674
—; Iyer, Bala V.; Higuchi, William I.; Hefferen, John J.: Solution activity product (K_{FAP}) and simultaneous demineralization–remineralization in bovine tooth enamel and hydroxyapatite pellets, **72:** 1252
Foye, William O.: review of "Dictionary of Organic Compounds, 5th Ed.", **72:** 582
—; Kim, Young Ho; Kauffman, Joel M.: Synthesis and antileukemic activity of 2-(2-methylthio-2-aminovinyl)-1-methylquinolinium iodides, **72:** 1356
Fragen, Robert J. *See* Avram, Michael J., **72:** 1424
Frank, M. J. *See* Berge, S. M., **72:** 59
Frank, Sylvan G.; Kavaliunas, Dalia R.: Investigation of the β-cyclodextrin–hydrocortisone inclusion compound, **72:** 1215
Freeman, Corinne *See* Shah, Vinod P., **72:** 309
French, J. N. *See* Hindmarsh, K. W., **72:** 1039
Fruncillo, Richard J.; DiGregorio, G. John; Soll, Adam: Effect of cimetidine on the pharmacokinetics of quinidine and lidocaine in the rat, **72:** 826
Fry, Fred S, Jr.; Maienthal, Millard; Benson, Walter R.: Synthesis of isopromethazine hydrochloride, **72:** 568
Fujinaga, Toshio *See* Uekama, Kaneto, **72:** 1338
Fujioka, Minoru *See* Baba, Shigeo, **72:** 1155
Fujita, Toshio: Analysis and prediction of partition coefficient of *meta*- and *para*-disubsituted benzenes in terms of substituent effects, **72:** 285
Fung, Ho-Leung *See* Aungst, Bruce J., **72:** 345
Furman, William B. *See* Cox, Don C., **72:** 910, 1061; Wells, Clyde E., **72:** 622
Furst, Daniel E. *See* Tozer, Thomas N., **72:** 1442
Furuta, Takashi *See* Baba, Shigeo, **72:** 1155

G

Gaddipati, Nehru; Volpe, Frank; Anthony, G.: Quantitative determination of benzoyl peroxide by high-performance liquid chromatography and comparison to the iodometric method, **72:** 1398
Galatulas, Iraklis *See* Andreani, Aldo, **72:** 814
Galvez, E.; Martinez, M.; Gonzalez, J.; Trigo, G. G.; Smith-Verdier, P.; Florencio, F.; Garcia-Blanco, S.: Synthesis and structural study of *N*-substituted nortropane spirohydantoins, **72:** 881
Gambertoglio, John G. *See* Tozer, Thomas N., **72:** 1442
Ganesan, Madurai G. *See* Schwinke, David L., **72:** 244
—; Weiner, Norman D.; Schacht, Jochen: Effects of calcium and neomycin on phase behavior of phospholipid bilayers, **72:** 1465
Garcia-Blanco, S. *See* Galvez, E., **72:** 881
Gardner, Mark J.; Smith, Francis X.; Shefter, Eli: Zn(II)–theophylline–ethylenediamine: structure and pH stability, **72:** 348
Garrett, Edward R. *See* Altmayer, Paul, **72:** 1309; Derendorf, Hartmut, **72:** 630
—; Roth, Willy: Nonlinear pharmacokinetics of the new positive inotropic agent sulmazole in the dog, **72:** 105
—; Seyda, Kazimierz: Prediction of stability in pharmaceutical preparations XX: Stability evaluation and bioanalysis of cocaine and benzoylecgonine by high-performance liquid chromatography, **72:** 258
—; Van Peer, Achiel: Pharmacokinetics of intravenous and oral 1,2-*O*-isopropylidene-3-*O*-3′-(*N*′,*N*′-dimethylamino-*n*-propyl)-D-glucofuranose hydrochloride in the dog as a function of dose and characterization of metabolites, **72:** 1045
Gaucher, A. *See* Monot, C., **72:** 35
Gautieri, Ronald F. *See* Ciociola, Arthur A., **72:** 742
Gebert, Paul H. *See* Waddell, Thomas G., **72:** 1474
Gelber, Loren; Papas, Andrew N.: Validation of high-performance liquid chromatographic methods for analysis of sustained-release preparations containing nitroglycerin, isosorbide dinitrate, or pentaerythritol tetranitrate, **72:** 124
Gencay, Hulki A. *See* Kametani, Fujio, **72:** 425
Gerlowski, Leonard E.; Jain, Rakesh K.: Physiologically based pharmacokinetic modeling: principles and applications, **72:** 1103
Germain, G. *See* Azibi, M., **72:** 232
Ghajar, M. *See* Houlsby, R. D., **72:** 1401
Giannini, R. P. *See* Augsburger, Larry L., **72:** 876
Gibaldi, Milo *See* Bauer, Larry A., **72:** 978; McNamara, Patrick J., **72:** 834
Gieschen, D. P. *See* Basak, S. C., **72:** 934
Gilbert, P. *See* Daoud, N. N., **72:** 290
Goldenberg, Marvin M. *See* Wright, George C., **72:** 1361
Goldstein, Dora B.: review of "Recent Advances in the Biology of Alcoholism", **72:** 581
Gonzalez, J. *See* Galvez, E., **72:** 881
Goromaru, Tsuyoshi *See* Baba, Shigeo, **72:** 1155
Grabinski, Patricia Y.; Kaiko, Robert F.; Walsh, T. D.; Foley, Kathleen M.; Houde, Raymond W.: Morphine radioimmunoassay specificity before and after extraction of plasma and cerebrospinal fluid, **72:** 27
Green, Donald E. *See* Juenge, Eric C., **72:** 617
Greenberg, Judith *See* Pitha, Josef, **72:** 665
Greenblatt, David J. *See* Abernethy, Darrell, R., **72:** 941; Ameer, Barbara, **72:** 955
Greene, D. S. *See* Birmingham, B. K., **72:** 1306
Grieve, A. P. *See* Fluehler, H., **72:** 1178
Guantai, A. N.; Maitai, C. K.: Metabolism of cathinone to *d*-norpseudoephedrine in humans, **72:** 1217
Guilarte, Tomas R.; Burns, H. Donald; Dannals, Robert F.; Wagner, Henry N., Jr.: A simple radiometric *in vitro* assay for acetylcholinesterase inhibitors, **72:** 90
Gunter, James M. *See* Gupta, V. Das, **72:** 1470
Gupta, V. Das: Complexation of procainamide with hydroxide-containing compounds, **72:** 205
Quantitation of meperidine hydrochloride in pharmaceutical dosage forms by high-performance liquid chromatography, **72:** 695
Stability of mezlocillin sodium as determined by high-performance liquid chromatography, **72:** 1479
Stability of triamcinolone acetonide solutions as determined by high-performance liquid chromatography, **72:** 1453
—; Stewart, Kenneth R.; Gunter, James M.: Quantitation of amikacin, kanamycin, neomycin, and tobramycin in pharmaceutical dosage forms using the Hantzsch reaction, **72:** 1470
Gural, Richard P. *See* Shah, Vinod P., **72:** 306
Gurnsey, Trevor S. *See* Hawes, Edward M., **72:** 702
Gurny, R. *See* Korsmeyer, R. W., **72:** 1189
Guryn, Roman *See* Majchrzak, Michał W., **72:** 304
Guy, Richard H. *See* Fleming, Robert, **72:** 142
—; Maibach, Howard I.: Drug delivery to local subcutaneous structures following topical administration, **72:** 1375
—; Wester, Ronald C.; Tur, Ethel; Maibach, Howard I.: Noninvasive assessments of the percutaneous absorption of methyl nicotinate in humans, **72:** 1077
Gyr, Gretchen *See* Radus, Thomas P., **72:** 221

H

Habib, N. S. *See* Ibrahim, El-Sebaii A., **72:** 1205
Hacker, Bruce; Chang, Yunik: Enhancement of

the antitumor activity of N^6-(Δ^2-isopentenyl)adenosine against cultured L-1210 leukemia cells by pentostatin using a polymeric delivery system, **72:** 902
—; Chang, Yunik: Increased cytotoxicity of N^6-(Δ^2-isopentenyl)adenosine in combination with pentostatin against L-1210 leukemia cells, **72:** 1225
Hadfield, Anthony F.; Mella, Sharon L.; Sartorelli, Alan C.: *N*-Acetyl-D-mannosamine analogues as potential inhibitors of sialic acid biosynthesis, **72:** 748
Hadgraft, Jonathan *See* Fleming, Robert, **72:** 142
Hafliger, Otto *See* Hansen, Jørgen B., **72:** 429
Hagen, T. A.; Flynn, Gordon L.: Solubility of hydrocortisone in organic and aqueous media: evidence for regular solution behavior in apolar solvents, **72:** 409
Haigh, J. M. *See* Dowse, R., **72:** 1018
Haley, Thomas J.: Physical and biological properties of pyrilamine, **72:** 3
Hall, I. H. *See* Chapman, James M., Jr., **72:** 1344; Cocolas, George H., **72:** 812; Levy, Ron K., **72:** 1158
review of "Progress in Medicinal Chemistry, Vol. 19", **72:** 1100
—; Lee, Kuo-Hsiung; Imakura, Y.; Okano, M.; Johnson, A.: Anti-inflammatory agents III: structure–activity relationships of brusatol and related quassinoids, **72:** 1282
—; Lee, Kuo-Hsiung; Imakura, Y.; Sims, D.: Antitumor agents LXIII: the effects of microlenin on nucleic acid and protein syntheses of Ehrlich ascites cells, **72:** 1008
—; Liou, Y. F.; Lee, Kuo-Hsiung; Chaney, S. G.; Willingham, W., Jr.: Antitumor agents LIX: effects of quassinoids on protein synthesis of a number of murine tumors and normal cells, **72:** 626
—; Voorstad, P. Josée; Chapman, James M., Jr.; Cocolas, George H.: Antihyperlipidemic activity of phthalimide analogues in rodents, **72:** 845
—; Voorstad, P. Josée; Chapman, James M., Jr.; Cocolas, George H.: Antihyperlipidemic activity of saccharin analogues in rodents, **72:** 1192
Hall, Lowell H. *See* Kier, Lemont B., **72:** 1170
Hammer, Charles F. *See* Zon, Gerald, **72:** 687
Hamon, N. W. *See* Dimmock, J. R., **72:** 887
Hanano, Manabu *See* Sato, Jun, **72:** 1137; Sugiyama, Yuichi, **72:** 871
Handa, Sukhdev S. *See* Badawi, Mohammed M., **72:** 1285
Hanna, Samir A.: review of "Formulation of Veterinary Dosage Forms", **72:** 1234
Hansen, Jørgen B.; Hafliger, Otto: Determination of the dissociation constant of a weak acid using a dissolution rate method, **72:** 429
Harapat, Sandra *See* Stanski, Donald R., **72:** 937
Harriss, D. K. *See* Basak, S. C., **72:** 934
Harwood, D. J. *See* Dimmock, J. R., **72:** 887
Hashida, M. *See* Sloan, K. B., **72:** 372
Hashimoto, Tsuyoshi *See* Uekama, Kaneto, **72:** 1338
Hassan, Moustapha *See* Ehrsson, Hans, **72:** 1203
Hawes, Edward M.; Gurnsey, Trevor S.; Shetty, H. Umesha; Midha, Kamal K.: Synthesis of deuterium-labeled prochlorperazine, **72:** 702
Haynes, John D.: FDA 75/75 Rule: A response, **72:** 99
Hazzaa, A. A. B. *See* El-Dawy, M. A., **72:** 45
Hedayati, M. A. *See* Shafiee, A., **72:** 198
Hedrick, Wyatt *See* Feldman, Stuart, **72:** 121
Hefferren, John J. *See* Fox, Jeffrey L., **72:** 1252
Heimlich, K. *See* Theeuwes, F., **72:** 253
Hem, Stanley L. *See* Landolt, Robert R., **72:** 561; Scholtz, Edward C., **72:** 973; Serna, Carlos J., **72:** 769
Hempenstall, J. M.; Irwin, W. J.; Po, A. Li Wan; Andrews, A. H.: Nonisothermal kinetics using a microcomputer: a derivative approach to the prediction of the stability of penicillin formulations, **72:** 668
Henderson, N. L. *See* Berge, S. M., **72:** 59
Hernandez-Laguna, A. *See* Smeyers, Yves G., **72:** 1011
Hester, J. B., Jr. *See* Cho, M. J., **72:** 356
Higuchi, Takeru *See* Dressman, J. B., **72:** 12; Nishihata, Toshiaki, **72:** 280; Sloan, K. B., **72:** 372
Higuchi, William I. *See* Behl, Charanjit R., **72:** 391, 397; Fox, Jeffrey L., **72:** 1252; Hsu, C. C., **72:** 674
Hilchie, Jane C. *See* Abraham, Isaac, **72:** 1412
Hillidge, Christopher J. *See* Theodorakis, Michael C., **72:** 580
Himmelstein, K. J. *See* Dressman, J. B., **72:** 12
Hindmarsh, K. W.; John, E.; Asali, L. A.; French, J. N.; Williams, G. L.; McBride, W. G.: Urinary excretion of methylparaben and its metabolites in preterm infants, **72:** 1039
—; Wallace, S. M.; Schneider, C. B.; Korchinski, E. D.: Methaqualone–diphenhydramine interaction study in humans, **72:** 176
Hirano, Koichiro; Yamada, Hideo: Studies on the absorption of practically water-insoluble drugs following injection VII: plasma concentration after different subcutaneous doses of a drug in aqueous suspension in rats, **72:** 602
—; Yamada, Hideo: Studies on the absorption of practically water-insoluble drugs following injection VIII: comparison of the subcutaneous absorption rates from aqueous suspensions in the mouse, rat, and rabbit, **72:** 608
Hirayama, Fumitoshi *See* Uekama, Kaneto, **72:** 1338
Hirobe, Masaaki *See* Matsumura, Kugako, **72:** 570
Ho, Norman F. H. *See* Behl, Charanjit R., **72:** 391, 397; Hsu, C. C., **72:** 674
Hochman, David; Blanchard, James: Simplified method for intravenous dosing and serial blood sampling of unanesthetized guinea pigs, **72:** 975
Hoffman, D. J.; Leveque, M. J.; Thomson, T.: Capillary GLC assay for carbinoxamine and hydrocodone in human serum using nitrogen-sensitive detection, **72:** 1342
Hoffman, Thomas R. *See* Batra, Vijay K., **72:** 894
Holford, Nicholas H. G. *See* Silber, Bernie M., **72:** 725; Tozer, Thomas N., **72:** 1442
Hollenbeck, R. Gary; Mitrevej, Krongtong T.; Fan, Allan C.: Estimation of the extent of drug–excipient interactions involving croscarmellose sodium, **72:** 325
Holleran, E. M. *See* Bansal, N. P., **72:** 1079
Hopfinger, A. J. *See* Kikuchi, O., **72:** 800; Nakata, Y., **72:** 809
Hori, Ryohei *See* Kamiya, Akira, **72:** 440
—; Komada, Fusao; Okumura, Katsuhiko: Pharmaceutical approach to subcutaneous dosage forms of insulin, **72:** 435
Houde, Raymond W. *See* Grabinski, Patricia Y., **72:** 27
Houin, G.; Bree, F.; Lerumeur, N.; Tillement, J. P.: High-performance liquid chromatographic determination of alizapride, a new antiemetic compound, and its application to a dose-dependent pharmacokinetic study, **72:** 71
Houlsby, R. D.; Ghajar, M.; Chavez, L.: Effects of preservatives, steroids, and ethylenediaminetetracetate on the antimicrobial activity of sulfacetamide, **72:** 1401
Howard, Stephen A. *See* Mauger, John W., **72:** 190
Hsieh, Dean S. T.; Rhine, William D.; Langer, Robert: Zero-order controlled-release polymer matrices for micro- and macromolecules, **72:** 17
Hsu, C. C.; Park, J. Y.; Ho, Norman F. H.; Higuchi, William I.; Fox, Jeffrey L.: Topical vaginal drug delivery I: effect of the estrous cycle on vaginal membrane permeability and diffusivity of vidarabine in mice, **72:** 674
Huang, Hong-Shian *See* Schoenwald, Ronald D., **72:** 1266
—; Schoenwald, Ronald D.; Lach, John L.: Corneal penetration behavior of β-blocking agents II: assessment of barrier contributions, **72:** 1272
—; Schoenwald, Ronald D.; Lach, John L.: Corneal penetration behavior of β-blocking agents III: *in vitro–in vivo* correlations, **72:** 1279
Huang, Jin-ding: Errors in estimating the unbound fraction of drugs due to the volume shift in equilibrium dialysis, **72:** 1368
Huang, Liang-Lii: Comment on a second-degree polynomial mathematical model for tablet friability and *in vitro* dissolution, **72:** 1096
Huang, Yih-Chain *See* Chien, Yie W., **72:** 968
—; Chiou, Win L.: Creatinine XII: comparison of assays of low serum creatinine levels using high-performance liquid chromatography and two picrate methods, **72:** 836
Hubbard, J. W. *See* Midha, Kamal K., **72:** 736
Hubbard, John W. *See* Briggs, Colin J., **72:** 918
Hucker, H. B.; Hutt, J. E.: Determination of cyproheptadine in plasma and urine by GLC with a nitrogen-sensitive detector, **72:** 1069
—; Hutt, J. E.: GLC determination of (−)-1-cyclopropylmethyl-4-(3-trifluoromethylthio-5*H*-dibenzo[*a,d*]cycloheptен-5-ylidene)piperidine in human plasma and urine, **72:** 815
Hufford, Charles D. *See* Clark, Alice M., **72:** 1288
—; Clark, Alice M.; Quinones, Iris N.; Baker, John K.; McChesney, James D.: Microbial metabolism studies on the major microbial and mammalian metabolite of primaquine, **72:** 92
Hughes, David Emlyn *See* Schieffer, Gary W., **72:** 55
Titrimetric determination of ascorbic acid with 2,6-dichlorophenol indophenol in commercial liquid diets, **72:** 126
Hunt, John *See* Prasad, Vadlamani K., **72:** 42
Hussain, A. *See* Kawahara, M., **72:** 1093
Hutt, J. E. *See* Hucker, H. B., **72:** 815, 1069
Hwang, Chiaw-Chi; Danti, August G.: Percutaneous absorption of flufenamic acid in rabbits: effect of dimethyl sulfoxide and various nonionic surface-active agents, **72:** 857

I

Ibrahim, El-Sebaii A.; Omar, A.-Mohsen, M. E.; Habib, N. S.; Aboulwafa, Omaima M.; El-Sewedy, S. M.; Bourdais, J.: Steroidal thiourea and thiazoline derivatives: synthesis and *in vitro* effects on bovine pancreatic ribonuclease activity, **72:** 1205
Ichioka, Kenichi *See* Kurono, Yukihisa, **72:** 432
Iga, Tatsuji *See* Sato, Jun, **72:** 1137
Ikeda, Ken *See* Kurono, Yukihisa, **72:** 432; Ohta, Naoko, **72:** 385
Illum, Lisbeth; Davis, Stanley S.: Effect of the nonionic surfactant poloxamer 338 on the fate and deposition of polystyrene microspheres following intravenous administration, **72:** 1086
Imakura, Y. *See* Hall, I. H., **72:** 1008, 1282
Imamura, Yorishige *See* Chen, Ming-Meei, **72:** 828
Inoue, Masatoshi *See* Shibata, Megumi, **72:** 1436
Irwin, W. J. *See* Hempenstall, J. M., **72:** 668; Yip, Y. W., **72:** 776
Isaacson, Eugene: review of "Textbook of Organic Medicinal and Pharmaceutical Chemistry, 8th Ed.", **72:** 328

Ishida, Toshimasa *See* Shibata, Megumi, **72:** 1436
Ishida, Y. *See* Yamada, K., **72:** 945
Ishizaka, Takafumi; Koishi, Masumi: *In vitro* drug release from egg albumin microcapsules, **72:** 1057
Ismail, Abla M. *See* El-Dawy, M. A., **72:** 45
Iwaoku, Reiko *See* Nakano, Masahiro, **72:** 378
Iyer, Bala V. *See* Fox, Jeffrey L., **72:** 1252
Izukura, Makoto *See* Sugiyama, Yuichi, **72:** 871

J

Jack, M. L.; Colburn, Wayne A.: Pharmacokinetic model for diazepam and its major metabolite desmethyldiazepam following diazepam administration, **72:** 1318
Jaffe, James M. *See* Mathur, Leo K., **72:** 1071; Tse, Francis L. S., **72:** 311
Jain, Rakesh K. *See* Gerlowski, Leonard E., **72:** 1103
James, M. *See* Anderson, N. H., **72:** 443
Jarosz, Paul J.; Parrott, Eugene L.: Comparison of granule strength and tablet tensile strength, **72:** 530
Jarowski, C. I. *See* Babar, Almas, **72:** 708; Bansal, N. P., **72:** 1079
Javaid, Karamat A.; El-Mabrouk, Buthaina H.: *In vitro* adsorption of phenobarbital onto activated charcoal, **72:** 82
Jefferson, Everett H. *See* Cox, Don C., **72:** 910
Johansen, Marianne; Bundgaard, Hans: Prodrugs as drug delivery systems XXV: hydrolysis of oxazolidines—a potential new prodrug type, **72:** 1294
John, E. *See* Hindmarsh, K. W., **72:** 1039
Johns, W. H. *See* Bodnar, J. E., **72:** 535
Johnson, A. *See* Hall, I. H., **72:** 1282
Johnson, Benjamin W. *See* Yalkowsky, Samuel H., **72:** 1014
Johnson, David M.; Taylor, William F.; Thompson, Geoffrey F.; Pritchard, Raymond A.: Degradation of fenprostalene in aqueous solution, **72:** 946
Johnson, Francis *See* Boring, Suzanne, **72:** 1064
Johnson, Howard L. *See* Almquist, Ronald G., **72:** 63
Johnson, K. *See* Anderson, B. D., **72:** 448
Johnson, Raymond N. *See* Prue, David G., **72:** 751
Jones, Alan B. *See* Beasley, Martin W., **72:** 505
Jones, C. E. *See* Pfadenhauer, E. H., **72:** 914
Jones, William J. *See* Dunn, Danny L., **72:** 277
Juenge, Eric C. *See* Wells, Clyde E., **72:** 622
—; Wells, Clyde E.; Green, Donald E.; Forrest, Irene S.; Shoolery, James N.: Synthesis, isolation, and characterization of two stereoisomeric ring sulfoxides of thioridazine, **72:** 617
Juhl, Yvonne H. *See* Reepmeyer, John C., **72:** 1302
Juni, Kazuhiko *See* Nakano, Masahiro, **72:** 378

K

Kaiko, Robert F. *See* Grabinski, Patricia Y., **72:** 27
Källstrand, Göran; Ekman, Bo: Membrane-coated tablets: a system for the controlled release of drugs, **72:** 772
Kamada, Akira *See* Nishihata, Toshiaki, **72:** 280
Kamath, Burde L. *See* Yacobi, Avraham, **72:** 556, 789
Kametani, Fujio; Kitagawa, Shuji; Gencay, Hulki A.: Reverse permeation of salicylate ion through cellulose membrane, **72:** 425
Kamiya, Akira; Okumura, Katsuhiko; Hori, Ryohei: Quantitative investigation on renal handling of drugs in rabbits, dogs, and humans, **72:** 440
Kane, Michael P.; Tsuji, Kiyoshi: Radiolytic degradation scheme for ^{60}Co-irradiated corticosteroids, **72:** 30
Kanfer, I. *See* Dowse, R., **72:** 1018
Kaplan, Stanley A. *See* Brazzell, Romulus K., **72:** 713
Kar, A.: Cinchophen analogues as potential CNS agents, **72:** 1082
Karnatz, Nancy N. *See* Baaske, David M., **72:** 194
Karol, M. D. *See* Veng-Pedersen, Peter, **72:** 951
Kartzinel, Ronald *See* Yacobi, Avraham, **72:** 710
Kasem, M. Gabr *See* Omar, A.-Mohsen M. E., **72:** 1226
Kato, Hideo *See* Matsumura, Kugako, **72:** 570
Kauffman, Joel M. *See* Foye, William O., **72:** 1356
Kavaliunas, Dalia R. *See* Frank, Sylvan G., **72:** 1215
Kavanagh, Frederick: review of "Polyether Antibiotics, Vol. 1: Naturally Occurring Acid Ionophores", **72:** 720
Kawabata, Nobuo; Sugiyama, Seiyu; Kuwamura, Tsukasa; Odaka, Yoshichika; Satoh, Tetsuo: Simultaneous determination of tegafur and 5-fluorouracil in serum by GLC using nitrogen-sensitive detection, **72:** 1162
Kawahara, M.; Muhi-Eldeen, Z.; Hussain, A.: Is aspirin phenylalanine ethyl ester a prodrug for aspirin?, **72:** 1093
Kawamura, K. *See* Takahashi, S., **72:** 739
Kawashima, Yoshiaki; Lin, Shan-Yang; Ueda, Masumi; Takenaka, Hideo; Ando, Yutaka: Direct preparation of solid particulates of aminopyrine–barbital complex (pyrabital) from droplets by a spray-drying technique, **72:** 514
Keller, William J.: review of "Introduction to Alkaloids—A Biogenetic Approach", **72:** 328
—; Meyer, Brian N.; McLaughlin, Jerry L.: (−)-α-Isosparteine from *Lupinus argenteus* var. *stenophyllus*, **72:** 563
Kemp, Murray *See* Scott, K. R., **72:** 183
Kennedy, Poledi G. *See* Scott, K. R., **72:** 183
Kerr, Kathleen M. *See* Smith, Robert V., **72:** 733
Kershner, Ronald P. *See* Park, George B., **72:** 817
Keshary, Prakash R. *See* Chien, Yie W., **72:** 968
Kesselring, U. W. *See* Perrier, P. R., **72:** 1072
Kho, Boen T. *See* Prue, David G., **72:** 751
Khuri, Raja N. *See* Bikhazi, A. B., **72:** 296
Kibbe, Arthur H. *See* Beasley, Martin W., **72:** 505
Kier, Lemont B.: review of "Molecular Basis of Drug Action", **72:** 210
—; Hall, Lowell H.: General definition of valence delta-values for molecular connectivity, **72:** 1170
Kikuchi, O.; Pearlstein, R.; Hopfinger, A. J.; Bickers, D. R.: Transition-state alkylation geometries of 7,8-dihydroxy-9,10-epoxy-7,8,9,10-tetrahydrobenzo[*a*]pyrene enantiomeric isomers with nucleic acid dimers, **72:** 800
Kim, Hyun Pyo; Byun, Si Myung; Yeom, Young Il; Kim, Sung Wan: Immobilization of urokinase on agarose matrices, **72:** 225
Kim, Sung Wan *See* Kim, Hyun Pyo, **72:** 225; Sato, Shuji, **72:** 228
Kim, Suni *See* Nishihata, Toshiaki, **72:** 280
Kim, Young Ho *See* Foye, William O., **72:** 1356
Kimmel, Hazel B. *See* Sisenwine, Samuel F., **72:** 85
Kimura, Motonobu *See* Tsuji, Akira, **72:** 1239
Kimura, Seiichi *See* Sugiyama, Yuichi, **72:** 871
Kinghorn, A. Douglas *See* Badawi, Mohammed M., **72:** 1285
Kitagawa, Shuji *See* Kametani, Fujio, **72:** 425
Klein, A. E. *See* Prosser, B. C., **72:** 1168
Klett, Robert *See* Boring, Suzanne, **72:** 1064
Knight, B. I.; Skellern, G. G.; Smail, G. A.; Browne, M. K.; Pfirrmann, R. W.: NMR studies and GC analysis of the antibacterial agent taurolidine, **72:** 705
Knight, Patrick *See* Prasad, Vadlamani K., **72:** 42
Knudsen, P. J. *See* Andersen, O., **72:** 158
Kohlhof, Kenneth J.; Stump, Decherd; Zizzamia, Joseph A.: Analysis of doxylamine in plasma by high-performance liquid chromatography, **72:** 961
Koishi, Masumi *See* Ishizaka, Takafumi, **72:** 1057
Kojima, I. *See* Anderson, N. H., **72:** 443
Kokubo, Hiromasa *See* Shibata, Megumi, **72:** 1436
Komada, Fusao *See* Hori, Ryohei, **72:** 435
Korchinski, E. D. *See* Hindmarsh, K. W., **72:** 176
Kornet, Milton J.; Chu, John Yeou-Ruoh: Synthesis and anticonvulsant activity of some 2-methyl-3-phenylcarbamoyl-2,3-diazabicyclo[2.2.1]heptanes, **72:** 94
—; Chu, John Yeou-Ruoh: Synthesis and anticonvulsant testing of 4-phenylsemicarbazides, **72:** 1213
Korsmeyer, R. W.; Gurny, R.; Doelker, E.; Buri, P.; Peppas, N. A.: Mechanisms of potassium chloride release from compressed, hydrophilic, polymeric matrices: effect of entrapped air, **72:** 1189
Kosobud, Larry *See* Wester, Ronald C., **72:** 745
Kostenbauder, Harry B. *See* Mayer, Philip R., **72:** 785
Kotełko, Antoni *See* Majchrzak, Michał W., **72:** 304
Kothari, Rohit C. *See* Carstensen, J. T., **72:** 1149
Koumriqian, Sona N. *See* Borazan, Hanna N., **72:** 1450
Kowalczyk, Kazimierz *See* Majchrzak, Michał W., **72:** 304
Kowarski, A. A. *See* Kowarski, C. R., **72:** 692
Kowarski, C. R.; Bado, B.; Shah, S.; Kowarski, D.; Kowarski, A. A.: Comparative study of immunoactivity and bioactivity of sodium insulin, **72:** 692
Kowarski, D. *See* Kowarski, C. R., **72:** 692
Kozatani, Jun *See* Ueda, Ikuo, **72:** 454
Kraml, M. *See* Cosyns, L., **72:** 275
Kreuter, Jörg; Nefzger, M.; Liehl, E.; Czok, R.; Voges, R.: Distribution and elimination of poly(methyl methacrylate) nanoparticles after subcutaneous administration to rats, **72:** 1146
Kroeten, Joseph J. *See* Benjamin, Eric J., **72:** 380
Krogh, Suzanne *See* Bauer, John, **72:** 924, 1347
Kubo, Osamu *See* Matsumura, Kugako, **72:** 570
Kumor, Karen M. *See* Noe, Dennis A., **72:** 718
Kurono, Yukihisa *See* Ohta, Naoko, **72:** 385
—; Ichioka, Kenichi; Ikeda, Ken: Kinetics of the rapid modification of human serum albumin with trinitrobenzenesulfonate and localization of its site, **72:** 432
Kuttesch, Nancy J. *See* Farquhar, David, **72:** 324
Kuwamura, Tsukasa *See* Kawabata, Nobuo, **72:** 1162
Kwan, K. C. *See* Theeuwes, F., **72:** 253

L

Laakso, Timo *See* Arturson, Per, **72:** 1415
Labouta, Ibrahim M. *See* Omar, A.-Mohsen M. E., **72:** 1226
Labrecque, Gaston *See* Bélanger, Pierre M., **72:** 1092
Lach, John L. *See* Huang, Hong-Shian, **72:** 1272, 1279
Lai, Chii-Ming *See* Yacobi, Avraham, **72:** 556, 710, 789
Lalande, Marcel *See* Bélanger, Pierre M., **72:** 1092
Lambert, Joseph B. *See* Majchrzak, Michał W., **72:** 304
Landolt, Robert R.; Hem, Stanley L.: Convenient method of simultaneously analyzing

aluminum and magnesium in pharmaceutical dosage forms using californium-252 thermal neutron activation, **72:** 561
Lane, Elizabeth A.; Levy, René H.: *In vivo* evaluation of the Michaelis-Menten constant for a medium extraction ratio drug: application to cinromide in the rhesus monkey, **72:** 1352
—; Levy, René H.: Pharmacokinetic relationships between cinromide and its metabolites in the rhesus monkey I: 3-bromocinnamamide, an active metabolite, **72:** 493
Lang, J. E. *See* Pikal, M. J., **72:** 635
Langer, Robert *See* Brown, L. R., **72:** 1181; Hsieh, Dean S. T., **72:** 17
Lau, Henry S. H. *See* Smith, David E., **72:** 1298
Laufen, H.; Schmid, M.; Leitold, M.: Use of isosorbide dinitrate saliva concentrations for biopharmaceutical investigations, **72:** 496
Lee, Charles *See* Chen, Ming-Meei, **72:** 828; Faulkner, R. D., **72:** 1165
Lee, H. *See* Amidon, G. L., **72:** 943
Lee, Kuo-Hsiung *See* Hall, I. H., **72:** 626, 1008, 1282; Levy, Ron K., **72:** 1158
Lee, M. *See* Amidon, G. L., **72:** 943
Lee, Myung G. *See* Chen, Mei-Ling, **72:** 572
Lee, Sang Jong *See* Yu, Byung Sul, **72:** 592
Lee, Seung Jin *See* Yu, Byung Sul, **72:** 592
Lee, Vincent H. L.: Esterase activities in adult rabbit eyes, **72:** 239
Lefort Des Ylouses, D. *See* Brossard, C., **72:** 162
Leitold, M. *See* Laufen, H., **72:** 496
Lele, Amol S. *See* Chou, Ruby C., **72:** 716
Leppert, Paula S. *See* Fix, Joseph A., **72:** 698, 1134
Lerumeur, N. *See* Houin, G., **72:** 71
Leung, Dominic M. *See* Theodorakis, Michael C., **72:** 130
Leveque, M. J. *See* Hoffman, D. J., **72:** 1342
Levitt, M. J. *See* Rudolph, G. R., **72:** 519
Levy, Gerhard *See* Chou, Ruby C., **72:** 716, 1230; Lin, Jiunn Huei, **72:** 213; Morris, Marilyn E., **72:** 612, 715; Whitfield, Lloyd R., **72:** 1141
Levy, René H. *See* Lane, Elizabeth A., **72:** 493, 1352; Wedlund, Peter J., **72:** 860, 905
Levy, Ron K.; Hall, I. H.; Lee, Kuo-Hsiung: Antitumor agents LXII: synthesis and biological evaluation of podophyllotoxin esters and related derivatives, **72:** 1158
Lichtenberg, Dov *See* Tamir, Ilana, **72:** 458
Liehl, E. *See* Kreuter, Jörg, **72:** 1146
Lijana, R. C.; Taulbee, J. D.: Method for predicting fill weight variation when packing powders using vacuum/purge fillers, **72:** 119
Lima, John J.: Experimental evidence for concentration-dependent plasma protein binding effects on the apparent half-lives of restrictively cleared drugs, **72:** 461
Lin, Jiunn, Huei *See* Sugiyama, Yuichi, **72:** 871
—; Levy, Gerhard: Renal clearance of inorganic sulfate in rats: Effect of acetaminophen-induced depletion of endogenous sulfate, **72:** 213
Lin, Shan-Yang *See* Kawashima, Yoshiaki, **72:** 514
Lin, Shu-Fen *See* Wong, Albert B., **72:** 388
—; Connors, Kenneth A.: Complex formation between α-cyclodextrin and 4-substituted phenols studied by potentiometric and competitive spectrophotometric methods, **72:** 1333
Linda, Paolo *See* Cipiciani, Antonio, **72:** 1075
Linde, Harry W. *See* Avram, Michael J., **72:** 1424
Lines, C. B. *See* Reader, M. J., **72:** 1406
Lingeman, H. *See* Underberg, W. J. M., **72:** 549, 553
Linn, Edward E. *See* Behl, Charanjit R., **72:** 391, 397
Linz, Gary S. *See* Petroski, Richard J., **72:** 1291
Liou, Y. F. *See* Hall, I. H., **72:** 626
Liron, Zvi; Cohen, Sasson: Densitometric determination of the solubility parameter and molal volume of compounds of medicinal relevance, **72:** 499
Liu, Ann L. *See* Sisenwine, Samuel F., **72:** 85
Liu, Yu-Ying *See* Dixon, Ross, **72:** 100
Logan, B. M. *See* Dimmock, J. R., **72:** 887
Lombardino, Joseph G.: review of "Trends in Inflammation Research 2", **72:** 720
Look, Zee M. *See* Yacobi, Avraham, **72:** 789
Lovering, E. G. *See* Matsui, F., **72:** 948, 1223
—; Matsui, F.; Curran, N. M.; Robertson, D. L.; Sears, R. W.: Hydrazine levels in formulations of hydralazine, isoniazid, and phenelzine over a 2-year period, **72:** 965
Lubawy, William C. *See* Mayer, Philip R., **72:** 785
Ludden, L. K. *See* Ludden, T. M., **72:** 693
Ludden, T. M.; Ludden, L. K.; Wade, K. E.; Allerheiligen, S. R. B.: Determination of hydralazine in human whole blood, **72:** 693
Ludeman, Susan Marie *See* Zon, Gerald, **72:** 687
Luxon, B. A. *See* Forker, E. L., **72:** 1232
Lyons, Jill C. *See* Serna, Carlos J., **72:** 769

M

Mackonka, C. *See* Midha, Kamal K., **72:** 736
Maeda, Hiromi *See* Tagami, Shoichiro, **72:** 988
Magnuson, V. R. *See* Basak, S. C., **72:** 934
Maibach, Howard I. *See* Guy, Richard H., **72:** 1077, 1375
Maienthal, Millard *See* Fry, Fred S, Jr., **72:** 568
Maitai, C. K. *See* Guantai, A. N., **72:** 1217
Majchrzak, Michał W.; Kotełko, Antoni; Guryn, Roman; Lambert, Joseph B.; Szadowska, Anna; Kowalczyk, Kazimierz: Synthesis and action on the central nervous system of mescaline analogues containing piperazine or homopiperazine rings, **72:** 304
Malhotra, D. *See* Nakata, Y., **72:** 809
Malone, Marvin H.: review of "Annual Review of Pharmacology and Toxicology, Vol. 22", **72:** 209
Mandallaz, D. *See* Fluehler, H., **72:** 1178
Mariani, E. P. *See* Bodnar, J. E., **72:** 535
Marsh, Dennis F.; Takahashi, Lloyd T.: Determination of benzalkonium chloride in the presence of interfering alkaloids and polymeric substrates by reverse-phase high-performance liquid chromatography, **72:** 521
Martin, A. *See* Wu, P. L., **72:** 587
Martin, F. Gene *See* Russi, Gary D., **72:** 151
Martin, J. *See* Monot, C., **72:** 35
Martinez, M. *See* Galvez, E., **72:** 881
Marttila, Esko *See* Marvola, Martti, **72:** 1034
Marunaka, Teruyoshi; Matsushima, Eiji; Umeno, Yukihiko; Minami, Yoshinori: GLC-mass fragmentographic determination of mannitol and sorbitol in plasma, **72:** 87
Marvola, Martti; Rajaniemi, Markku; Marttila, Esko; Vahervuo, Kari; Sothmann, Aslak: Effect of dosage form and formulation factors on the adherence of drugs to the esophagus, **72:** 1034
Marwadi, P. R. *See* Bhise, S. B., **72:** 599
Masahara, Reiko *See* Matsuda, Yoshihisa, **72:** 1198
Mason, William D.; Winer, Nathaniel: Influence of food on aspirin absorption from tablets and buffered solutions, **72:** 819
Masoud, A. N. *See* Dubes, G. R., **72:** 300; Ezzedeen, F. W., **72:** 1036
Masoud, Asaad N. *See* Schaeffer, Val H., **72:** 1255
Massart, D. L. *See* Buydens, L., **72:** 1327
Mathur, Leo K.; Colaizzi, John L.; Jaffe, James M.; Poust, Rolland I.; Shah, Vinod P.: *In vivo–in vitro* correlations for trisulfapyrimidine suspensions, **72:** 1071
Mathur, S. S. *See* Bhise, S. B., **72:** 599
Matsuda, Yoshihisa; Masahara, Reiko: Photostability of solid-state ubidecarenone at ordinary and elevated temperatures under exaggerated UV irradiation, **72:** 1198
Matsui, F. *See* Lovering, E. G., **72:** 965
—; Lovering, E. G.; Curran, N. M.; Watson, J. R.: Determination of azobenzene and hydrazobenzene in phenylbutazone and sulfinpyrazone products by high-performance liquid chromatography, **72:** 1223
—; Robertson, D. L.; Lovering, E. G.: Determination of hydrazine in pharmaceuticals III: hydralazine and isoniazid using GLC, **72:** 948
Matsumura, Kugako; Kubo, Osamu; Sakashita, Toshiko; Kato, Hideo; Watanabe, Keizo; Hirobe, Masaaki: Determination of serum tulobuterol concentrations by mass fragmentography: comparison with an electron-capture gas chromatographic method, **72:** 570
Matsushima, Eiji *See* Marunaka, Teruyoshi, **72:** 87
Matthews, H. W. *See* Scott, K. R., **72:** 183
Mau, J. *See* Fluehler, H., **72:** 1178
Mauger, John W.; Howard, Stephen A.; Amin, Kirit: Dissolution profiles for finely divided drug suspensions, **72:** 190
Maxwell, K. W. *See* Pfadenhauer, E. H., **72:** 914
Mayer, Philip R.; Lubawy, William C.; McNamara, Patrick J.; Kostenbauder, Harry B.: Metabolism of isosorbide dinitrate in the isolated perfused rabbit lung, **72:** 785
McBride, W. G. *See* Hindmarsh, K. W., **72:** 1039
McChesney, James D. *See* Hufford, Charles D., **72:** 92
—; Wycpalek, Alan F.: Picrotoxin-like lactones, **72:** 1131
McGilveray, Iain J.: review of "CRC Handbook of Chromatography Drugs. Vols. I and II", **72:** 102
McGlinchey, Gráinne *See* Spillane, William J., **72:** 852
McHan, Danny R. *See* Acree, William E., Jr., **72:** 929
McKay, G. *See* Cooper, J. K., **72:** 1259
McLaughlin, Jerry L. *See* Keller, William J., **72:** 563
McNamara, Patrick J. *See* Mayer, Philip R., **72:** 785
—; Gibaldi, Milo; Stoeckel, Klaus: Fraction unbound in interstitial fluid, **72:** 834
Medwick, Thomas *See* Fekety, Karen B., **72:** 1358
Mehta, Ashok *See* Carstensen, J. T., **72:** 208
Mehta, Hina *See* Capizzi, Thomas, **72:** 995
Mella, Sharon L. *See* Hadfield, Anthony F., **72:** 748
Menzies, Allan *See* Bailey, Keith, **72:** 1084
Merkle, H. P. *See* Anders, R., **72:** 1481
Meyer, Brian N. *See* Keller, William J., **72:** 563
Meyer, Marvin C. *See* Ringhand, H. P., **72:** 1409; Shah, Vinod P., **72:** 306; Yau, Martin K. T., **72:** 681
Mezei, Michael *See* Abraham, Isaac, **72:** 1412
Midha, Kamal K. *See* Cooper, J. K., **72:** 1259; Hawes, Edward M., **72:** 702
review of "Chromatography and Mass Spectrometry in Biomedical Sciences 2", **72:** 1371
—; Hubbard, J. W.; Cooper, J. K.; Mackonka, C.: Stereospecific radioimmunoassays for *l*-ephedrine and *d*-ephedrine in human plasma, **72:** 736
Miksic, J. R. *See* Rudolph, G. R., **72:** 519
Miller, Kenneth W. *See* Chan, Keith K. H., **72:** 574
Milo-Goldzweig, Ilana *See* Segal, Ruth, **72:** 1461
Mima, Hiroyuki *See* Okada, Hiroaki, **72:** 75, 173
Minami, Hidemi *See* Tsuji, Akira, **72:** 1239
Minami, S. *See* Takahashi, S., **72:** 739

Minami, Yoshinori *See* Marunaka, Teruyoshi, **72:** 87
Mitrevej, Krongtong T. *See* Hollenbeck, R. Gary, **72:** 325
Miyamoto, Etsuko *See* Tsuji, Akira, **72:** 1239
—; Tsuji, Akira; Yamana, Tsukinaka: Effects of surfactants on the GI absorption of β-lactam antibiotics in rats, **72:** 651
Mizuta, Kazutaka *See* Zon, Gerald, **72:** 687
Mohamed, Hosny F. *See* Soliman, Raafat, **72:** 999, 1004
Mokhtar, Hassan *See* Soliman, Raafat, **72:** 999, 1004
Møller, N. *See* Seth, P., **72:** 971
Monot, C.; Netter, P.; Stalars, M. C.; Martin, J.; Royer, R. J.; Gaucher, A.: Difficulties in applying the Scatchard model of ligand binding to proteins—proposal of new mathematical tools—application to salicylates, **72:** 35
Moore, Douglas E. *See* Tamat, Swasono R., **72:** 180
Moore, Terry W. *See* Cox, Don C., **72:** 910
Morales-Aguilera, Antonio *See* Villegas-Navarro, Arturo, **72:** 1221
Morehead, William T. *See* Danielson, Douglas W., **72:** 342
Morgan, Denis J.: Models of hepatic drug elimination: a response, **72:** 1230
Morimoto, Kazuhiro *See* Shibata, Megumi, **72:** 1436
Morisaka, Katsuaki *See* Shibata, Megumi, **72:** 1436
Morishita, Shigeyoshi *See* Nishihata, Toshiaki, **72:** 280
Morris, Marilyn E.; Levy, Gerhard: Determination of salicylamide and five metabolites in biological fluids by high-performance liquid chromatography, **72:** 612
—; Levy, Gerhard: Plasma inorganic sulfate concentrations in pregnant women, **72:** 715
Morrison, John A. *See* Batra, Vijay K., **72:** 894
Moser, H. A. *See* Fluehler, H., **72:** 1178
Muhammad, N. *See* Prosser, B. C., **72:** 1168
Muhi-Eldeen, Z. *See* Kawahara, M., **72:** 1093
Müller, Walter E. *See* El-Gamal, Safaa, **72:** 202
Murphy, James C. *See* Watson, Edna S., **72:** 954

N

Nagaoka, Y. *See* Takahashi, S., **72:** 739
Nakano, Masahiro; Ohmori, Naoko; Ogata, Ako; Sugimoto, Kazuko; Tobino, Yukiko; Iwaoku, Reiko; Juni, Kazuhiko: Sustained release of theophylline from hydroxypropylcellulose tablets, **72:** 378
Nakao, Makoto *See* Yamamura, Keiko, **72:** 958
Nakashima, Emi *See* Tsuji, Akira, **72:** 1239
Nakata, Y.; Malhotra, D.; Hopfinger, A. J.; Bickers, D. R.: Intercalation of 7,8-dihydroxy-9,10-epoxy-7,8,9,10-tetrahydrobenzo[*a*]pyrene enantiomeric isomers with dinucleoside dimers: a basis for alkylation of the 2-amino group in guanine, **72:** 809
Narang, P. K. *See* Pascucci, V. L., **72:** 1467
Nayak, Ramchandra K. *See* Desiraju, Ravi K., **72:** 991
Nefzger, M. *See* Kreuter, Jörg, **72:** 1146
Nelson, Wendel L. *See* Chen, Ching-Hsiu, **72:** 863
Netter, P. *See* Monot, C., **72:** 35
Ng, Kung-Tat *See* Desiraju, Ravi K., **72:** 991
Niazi, Sarfaraz *See* Bakar, Shamsul K., **72:** 1020, 1024, 1027, 1030
Nielsen, M. K. *See* Andersen, O., **72:** 158
Nightingale, Charles H. *See* Tsuji, Akira, **72:** 1239
Nishide, Kazunori *See* Tsuji, Akira, **72:** 1239
Nishihata, Toshiaki; Kim, Suni; Morishita, Shigeyoshi; Kamada, Akira; Yata, Noboru; Higuchi, Takeru: Adjuvant effects of glyceryl esters of acetoacetic acid on rectal absorption of insulin and inulin in rabbits, **72:** 280
Noe, Dennis A.; Kumor, Karen M.: Drug kinetics in low-flux (small) anatomic compartments, **72:** 718
Noonan, Patrick K. *See* Wester, Ronald C., **72:** 745
Nubani, H. M. *See* Bikhazi, A. B., **72:** 116
Nuessle, Noel O.: review of "Pharmaceutics and Pharmacy Practice", **72:** 101

O

Ober, Robert E. *See* Chang, Shaw F., **72:** 236
Odaka, Yoshichika *See* Kawabata, Nobuo, **72:** 1162
Ogata, Ako *See* Nakano, Masahiro, **72:** 378
Ohashi, Mamoru; Barron, Robert P.; Benson, Walter R.: In-beam electron ionization mass spectra of penicillins, **72:** 508
Ohmori, Naoko *See* Nakano, Masahiro, **72:** 378
Ohta, Naoko; Kurono, Yukihisa; Ikeda, Ken: Esterase-like activity of human serum albumin II: reaction with *N-trans*-cinnamoylimidazoles, **72:** 385
Øie, Svein: review of "Pharmacokinetics, 2nd Ed.", **72:** 1370
Okada, Hiroaki; Yamazaki, Iwao; Yashiki, Takatsuka; Mima, Hiroyuki: Vaginal absorption of a potent luteinizing hormone-releasing hormone analogue (leuprolide) in rats II: mechanism of absorption enhancement with organic acids, **72:** 75
—; Yashiki, Takatsuka; Mima, Hiroyuki: Vaginal absorption of a potent luteinizing hormone-releasing hormone analogue (leuprolide) in rats III: Effect of estrous cycle on vaginal absorption of hydrophilic model compounds, **72:** 173
Okano, M. *See* Hall, I. H., **72:** 1282
Okumura, Katsuhiko *See* Hori, Ryohei, **72:** 435; Kamiya, Akira, **72:** 440
Olsen, Carolyn S.; Scroggins, Henry S.: High-performance liquid chromatographic determination of nitroglycerin in sublingual, sustained-release, and ointment dosage forms, **72:** 963
Omar, A.-Mohsen M. E. *See* El-Dawy, M. A., **72:** 45; Ibrahim, El-Sebaii A., **72:** 1205
—; Labouta, Ibrahim M.; Kasem, M. Gabr; Bourdais, J.: Arylidenepyruvic acid thiosemicarbazone and thiazoline derivatives as potential antimicrobial agents, **72:** 1226
O'Muircheartaigh, Iognaid *See* Spillane, William J., **72:** 852
Ong, Helen H.: review of "Central Analgetics", **72:** 1234
Oppenheimer, Leonard *See* Capizzi, Thomas, **72:** 995
Ortiz, A.; Poyato, I.; Fernandez-Alonso, J. I.: Influence of environment and substituents on the stability of the radical cations of several phenothiazine derivatives, **72:** 50
Osman, S. A. A.; Abdalla, A. A.; Alaib, M. O.: Synthesis of sulfanilamido-naphthoquinones as potential antituberculous agents, **72:** 68
Otagiri, Masaki *See* Uekama, Kaneto, **72:** 1338
Özkan, Günay *See* Zon, Gerald, **72:** 687

P

Pace, Joseph N. *See* Celio, Lee A., **72:** 597
Page, Donald P. *See* Cox, Don C., **72:** 1061
Pajouhesh, Hossein; Parson, Randy; Popp, Frank D.: Potential anticonvulsants VI: Condensation of isatins with cyclohexanone and other cyclic ketones, **72:** 318
Papas, Andrew N. *See* Gelber, Loren, **72:** 124
Park, George B.; Kershner, Ronald P.; Angellotti, Jon; Williams, Roger L.; Benet, Leslie Z.; Edelson, Jerome: Oral bioavailability and intravenous pharmacokinetics of amrinone in humans, **72:** 817
Park, J. Y. *See* Hsu, C. C., **72:** 674
Parrott, Eugene L. *See* Jarosz, Paul J., **72:** 530; Simpson, Michael, **72:** 757; Weng, Ho-Lun, **72:** 186
review of "Physicochemical Principles of Pharmacy", **72:** 328
—; Simpson, Michael; Flanagan, D. R.: Dissolution kinetics of a three-component solid II: benzoic acid, salicylic acid, and salicylamide, **72:** 765
Parson, Randy *See* Pajouhesh, Hossein, **72:** 318
Parsons, D. L.: Furosemide binding by human albumin: comparison of two methods of fluorescence quenching analysis, **72:** 542
Pascucci, V. L.; Bennett, J.; Narang, P. K.; Chatterji, D. C.: Quantitation of ketoconazole in biological fluids using high-performance liquid chromatography, **72:** 1467
Pearlstein, R. *See* Kikuchi, O., **72:** 800
Pellizer, G.; Rubessa, Fulvio: ^{1}H- and ^{13}C-NMR spectra of fenobam, **72:** 189
Peppas, N. A. *See* Korsmeyer, R. W., **72:** 1189
Perrier, P. R.; Kesselring, U. W.: Quantitative assessment of the effect of some excipients on nitrazepam stability in binary powder mixtures, **72:** 1072
Perrin, John H. *See* Chen, Ming-Meei, **72:** 828
Petersen, R. V. *See* Zupon, M. A., **72:** 1323
Petroski, Richard J.; Bates, Robert B.; Linz, Gary S.; Rosazza, John P.: Microbial transformations of natural antitumor agents XXII: conversion of bouvardin to *O*-desmethylbouvardin and bouvardin catechol, **72:** 1291
Pfadenhauer, E. H.; Jones, C. E.; Maxwell, K. W.: Radioimmunoassay of the immunomodulator *erythro*-9-(2-hydroxy-3-nonyl)-hypoxanthine in human serum and urine, **72:** 914
Pfirrmann, R. W. *See* Knight, B. I., **72:** 705
Philip, Jose; Daly, Robert E.: Test for selection of erythromycin stearate bulk drug for tablet preparation, **72:** 979
Pierson, Carl L. *See* Behl, Charanjit R., **72:** 391, 397
Pikal, M. J.; Shah, S.; Senior, D.; Lang, J. E.: Physical chemistry of freeze-drying: measurement of sublimation rates for frozen aqueous solutions by a microbalance technique, **72:** 635
Piraino, Anthony J. *See* Celio, Lee A., **72:** 597
Pitha, Josef; Szente, Lajos; Greenberg, Judith: Poly-L-methionine sulfoxide: a biologically inert analogue of dimethyl sulfoxide with solubilizing potency, **72:** 665
Pitman, Ian H.; Rostas, Susan J.; Downes, Leanne M.: Effects of breed, season, temperature, and solvents on the permeability of frozen and reconstituted cattle skin to levamisole, **72:** 218
Pivnichny, James V.; Shim, Jung-Sook K.; Zimmerman, Laurie A.: Direct determination of avermectins in plasma at nanogram levels by high-performance liquid chromatography, **72:** 1447
Place, V. *See* Theeuwes, F., **72:** 253
Plaizier-Vercammen, J. A.: Interaction of povidone with aromatic compounds IV: effects of macromolecule molecular weight, solvent dielectric constant, and ligand solubility on complex formation, **72:** 1042
Po, A. Li Wan *See* Hempenstall, J. M., **72:** 668; Yip, Y. W., **72:** 776
Popp, Frank D. *See* Pajouhesh, Hossein, **72:** 318
Porter, Patricia A. *See* Fix, Joseph A., **72:** 698, 1134
Posada-Retana, Artemisa *See* Villegas-Navarro, Arturo, **72:** 1221
Poust, Rolland I. *See* Mathur, Leo K., **72:** 1071
Poyato, I. *See* Ortiz, A., **72:** 50
Prasad, Vadlamani K. *See* Augsburger, Larry L., **72:** 876; Shah, Vinod P., **72:** 306, 309
—; Shah, Vinod P.; Hunt, John; Purich, Edward; Knight, Patrick; Cabana, Bernard

E.: Evaluation of basket and paddle dissolution methods using different performance standards, **72:** 42
Pritchard, Raymond A. *See* Johnson, David M., **72:** 946
Prosser, B. C.; Floor, B. J.; Klein, A. E.; Muhammad, N.: Determinations of tiodazosin and levulinic acid from tablets by high-performance liquid chromatography, **72:** 1168
Prue, David G.; Johnson, Raymond N.; Kho, Boen T.: High-performance liquid chromatographic determination of pralidoxime chloride and its major decomposition products in injectable solutions, **72:** 751
Puisieux, F. *See* Brossard, C., **72:** 162
Purich, Edward *See* Prasad, Vadlamani K., **72:** 42

Q

Quick, John *See* Bauer, John, **72:** 924
Quinn, R.; Andrade, J. D.: Minimizing the aggregation of neutral insulin solutions, **72:** 1472
Quinones, Iris N. *See* Hufford, Charles D., **72:** 92

R

Radebaugh, Galen W.; Simonelli, Anthony P.: Phenomenological viscoelasticity of a heterogeneous pharmaceutical semisolid, **72:** 415
—; Simonelli, Anthony P.: Temperature–frequency equivalence of the viscoelastic properties of anhydrous lanolin USP, **72:** 422
Radus, Thomas P.; Gyr, Gretchen: Determination of antimicrobial preservatives in pharmaceutical formulations using reverse-phase liquid chromatography, **72:** 221
Raghavan, S. K. *See* Dimmock, J. R., **72:** 887
Rahn, Paul D. *See* Tsuji, Kiyoshi, **72:** 23
Raisfeld-Danse, Ilene H. *See* Boring, Suzanne, **72:** 1064
Rajaniemi, Markku *See* Marvola, Martti, **72:** 1034
Ramzan, Iqbal M.: Rate of recovery from fazadinium: relationship to the rate of decline of its plasma concentration, **72:** 1369
Ravenscroft, P. J. *See* Charles, B. G., **72:** 96
Ray, J. E.; Day, R. O.: High-performance liquid chromatographic analysis of diflunisal in plasma and urine: application to pharmacokinetic studies in two normal volunteers, **72:** 1403
Reader, M. J.; Lines, C. B.: Decomposition of thimerosal in aqueous solution and its determination by high-performance liquid chromatography, **72:** 1406
Reepmeyer, John C.: Thermal decomposition of aspirin: Formation of linear oligomeric salicylate esters, **72:** 322
—; Juhl, Yvonne H.: Contamination of injectable solutions with 2-mercaptobenzothiazole leached from rubber closures, **72:** 1302
Reif, Van D.; DeAngelis, Nicholas J.: Stability-indicating high-performance liquid chromatographic assay for oxazepam tablets and capsules, **72:** 1330
Reifenrath, William G.; Rutledge, Louis C.: Evaluation of mosquito repellent formulations, **72:** 169
Renzi, Ned L., Jr. *See* Desiraju, Ravi K., **72:** 991
Repta, A. J. *See* Riley, C. M., **72:** 351
Reuning, Richard H. *See* Bockbrader, Howard N., **72:** 271
Rhine, William D. *See* Hsieh, Dean S. T., **72:** 17
Richards, Richard K. *See* Stanski, Donald R., **72:** 937
Richheimer, Steven L.; Amer, Tahani, M.: Stability-indicating assay, dissolution, and content uniformity of sodium levothyroxine in tablets, **72:** 1349
—; Schachet, Merl S.: Rapid and simplified assay for thyroid in pharmaceutical preparations by potentiometric titration, **72:** 822
Riegelman, Sidney *See* Silber, Bernie M., **72:** 725; Tang-Liu, D. Dan-Shya, **72:** 154
Riley, C. M.; Sternson, L. A.; Repta, A. J.: High-performance liquid chromatography of cisplatin, **72:** 351
Ringhand, H. P.; Ritschel, W. A.; Meyer, Marvin C.; Straughn, A. B.; Cabana, Bernard E.: Bioavailability of propylthiouracil in humans, **72:** 1409
Rippie, Edward G. *See* Danielson, Douglas W., **72:** 342
Ritschel, W. A. *See* Ringhand, H. P., **72:** 1409
Rittner, Roberto *See* Zanatta, Nilo, **72:** 831
Roberts, Richard D. *See* Yamaoka, Yumiko, **72:** 400
Robertson, D. L. *See* Lovering, E. G., **72:** 965; Matsui, F., **72:** 948
Rosazza, John P. *See* Petroski, Richard J., **72:** 1291
Roseman, T. J. *See* Yalkowsky, Samuel H., **72:** 866
Rosenberg, Jack M.: review of "Hormone Drugs", **72:** 720
Rosentreter, U. *See* Skinner, W. A., **72:** 1354
Rosoff, Morton; Sheen, Pai-Chang: Pan abrasion and polymorphism of titanium dioxide in coating suspensions, **72:** 1485
Ross, S. *See* Taylor, P., **72:** 1477
Rostas, Susan J. *See* Pitman, Ian H., **72:** 218
Roth, Willy *See* Garrett, Edward R., **72:** 105
Rowland, Malcolm *See* Banfield, Christopher, **72:** 921
Royce, Alan E. *See* Schott, Hans, **72:** 313, 1427
Royer, R. J. *See* Monot, C., **72:** 35
Rubessa, Fulvio *See* Cipiciani, Antonio, **72:** 1075; Pellizer, G., **72:** 189
Rubin, Robert J. *See* Schaeffer, Val H., **72:** 1255
Ruch, Eileen *See* Celio, Lee A., **72:** 597
Rudolph, G. R.; Miksic, J. R.; Levitt, M. J.: GLC determination of phendimetrazine in human plasma, serum, or urine, **72:** 519
Ruelius, Hans W. *See* Sisenwine, Samuel F., **72:** 85
Russi, Gary D.; Martin, F. Gene: Interaction of cyclazocine and the sympathetic nervous system, **72:** 151
Rutledge, Louis C. *See* Reifenrath, William G., **72:** 169
Rytting, J. Howard *See* Acree, William E., Jr., **72:** 292, 929

S

Sakashita, Toshiko *See* Matsumura, Kugako, **72:** 570
Salimi, M. M. *See* Shafiee, A., **72:** 198
Sanders, G. A. *See* Carrie, T. R., **72:** 976
Sarpotdar, Pramod P. *See* Chien, Yie W., **72:** 968
Sartorelli, Alan C. *See* Hadfield, Anthony F., **72:** 748
Sato, Jun; Sawada, Yasufumi; Iga, Tatsuji; Hanano, Manabu: Effect of quinidine on digoxin distribution and elimination in guinea pigs, **72:** 1137
Sato, Shuji; Ebert, Charles D.; Kim, Sung Wan: Prevention of insulin self-association and surface adsorption, **72:** 228
Satoh, Tetsuo *See* Kawabata, Nobuo, **72:** 1162
Saunders, Priscilla P. *See* Farquhar, David, **72:** 324
Savage, Catherine *See* Briggs, Colin J., **72:** 918
Savelli, Gianfranco *See* Cipiciani, Antonio, **72:** 1075
Sawada, Yasufumi *See* Sato, Jun, **72:** 1137
Scahill, T. A. *See* Cho, M. J., **72:** 356
Scapini, Giancarlo *See* Andreani, Aldo, **72:** 814
Schachet, Merl S. *See* Richheimer, Steven L., **72:** 822
Schacht, Jochen *See* Ganesan, Madurai G., **72:** 1465
Schaeffer, Val H.; Masoud, Asaad N.; Rubin, Robert J.: Analysis of monobutyryl and dibutyryl derivatives of adenosine 3′,5′-monophosphate in biological samples using isocratic ion pair high-performance liquid chromatography, **72:** 1255
Schieffer, Gary W.; Hughes, David Emlyn: Simultaneous stability-indicating determination of phenylephrine hydrochloride, phenylpropanolamine hydrochloride, and guaifenesin in dosage forms by reversed-phase paired-ion high-performance liquid chromatography, **72:** 55
Schiff, Paul L., Jr.: review of "Chromatography of Alkaloids, Part A: Thin-Layer Chromatography", **72:** 1235
Schmid, M. *See* Laufen, H., **72:** 496
Schneider, C. B. *See* Hindmarsh, K. W., **72:** 176
Schoenwald, Ronald D. *See* Huang, Hong-Shian, **72:** 1272, 1279
—; Huang, Hong-Shian: Corneal penetration behavior of β-blocking agents I: physicochemical factors, **72:** 1266
Scholtz, Edward C.; Zapata, Mary I.; Hem, Stanley L.; Feldkamp, Joseph R.; White, Joe L.: Physicochemical interpretation of pH-stat titration of amorphous aluminum hydroxycarbonate, **72:** 973
Schott, Hans; Royce, Alan E.: Effect of inorganic additives on solutions of nonionic surfactants V: emulsion stability, **72:** 1427
—; Royce, Alan E.: Improved microscopic techniques for droplet size determination of emulsions, **72:** 313
Schurr, W. *See* Anders, R., **72:** 1481
Schwan, Thomas J. *See* Wright, George C., **72:** 1361
Schwartz, Michael A. *See* Tomida, Hisao, **72:** 331
Schwendner, S. W. *See* Damle, N. S., **72:** 898
Schwinke, David L.; Ganesan, Madurai G.; Weiner, Norman D.: Monolayer studies of insulin–lipid interactions, **72:** 244
Scott, Edith P.: Application of postcolumn ionization in the high-performance liquid chromatographic analysis of butabarbital sodium elixir, **72:** 1089
Scott, K. R.; Kennedy, Poledi G.; Kemp, Murray; Telang, Vasant G.; Matthews, H. W.: Evaluation of various *N*-substituted azaspiranedione derivatives as potential antimicrobial agents, **72:** 183
Scroggins, Henry S. *See* Olsen, Carolyn S., **72:** 963
Sears, R. W. *See* Lovering, E. G., **72:** 965
Seevers, R. H. *See* Damle, N. S., **72:** 898
Segal, Ruth; Milo-Goldzweig, Ilana: Hemolysis caused by cetomacrogol 1000: evidence for hydroxyl radical participation, **72:** 1461
Senior, D. *See* Pikal, M. J., **72:** 635
Seo, Hakaru *See* Uekama, Kaneto, **72:** 1338
Serna, Carlos J.; Lyons, Jill C.; White, Joe L.; Hem, Stanley L.: Stabilization of aluminum hydroxide gel by specifically adsorbed carbonate, **72:** 769
Seth, P.; Møller, N.; Tritsch, J. C.; Stamm, A.: Rebound phenomenon observed during the compaction of samples in the Fisher subsieve sizer for measuring specific surface area of griseofulvin, **72:** 971
Sethi, Manohar L.: Enzyme inhibition VI: inhibition of reverse transcriptase activity by protoberberine alkaloids and structure–activity relationships, **72:** 538
Seyda, Kazimierz *See* Garrett, Edward R., **72:** 258
Shada, Douglas *See* Bauer, John, **72:** 924
Shafiee, A.; Hedayati, M. A.; Salimi, M. M.; Faghihi, S. M.: Synthesis and pharmacological activity of benzo[*b*]thiophene-3-carboxylic acid derivatives, **72:** 198

Shah, Ashok C.: review of "Handbook of Dissolution Testing", **72:** 581
Shah, S. *See* Kowarski, C. R., **72:** 692; Pikal, M. J., **72:** 635
Shah, Vinod P. *See* Augsburger, Larry L., **72:** 876; Mathur, Leo K., **72:** 1071; Prasad, Vadlamani K., **72:** 42
—; Prasad, Vadlamani K.; Alston, Treva; Cabana, Bernard E.; Gural, Richard P.; Meyer, Marvin C.: Phenytoin I: *in vitro–in vivo* correlation for 100-mg phenytoin sodium capsules, **72:** 306
—; Prasad, Vadlamani K.; Freeman, Corinne; Skelly, Jerome P.; Cabana, Bernard E.: Phenytoin II: *in vitro–in vivo* bioequivalence standard for 100-mg phenytoin sodium capsules, **72:** 309
Shangraw, Ralph F. *See* Augsburger, Larry L., **72:** 876
Shargel, Leon *See* Ameer, Barbara, **72:** 955
Sheen, Pai-Chang *See* Rosoff, Morton, **72:** 1485
Shefter, Eli *See* Gardner, Mark J., **72:** 348
Shek, Efraim *See* Benjamin, Eric J., **72:** 380
Shelver, William H.; Farris, Fred F.: Nonparametric pharmacokinetic calculations: one-compartment open model, **72:** 1218
Shetty, H. Umesha *See* Hawes, Edward M., **72:** 702
Shibata, Megumi; Kokubo, Hiromasa; Morimoto, Kazuhiro; Morisaka, Katsuaki; Ishida, Toshimasa; Inoue, Masatoshi: X-ray structural studies and physicochemical properties of cimetidine polymorphism, **72:** 1436
Shibata, S. *See* Yamada, K., **72:** 945
Shim, Jung-Sook K. *See* Pivnichny, James V., **72:** 1447
Shimojo, Fumio *See* Ueda, Ikuo, **72:** 454
Shinal, E. C. *See* Bodnar, J. E., **72:** 535
Shizuri, Y. *See* Yamada, K., **72:** 945
Shoolery, James N. *See* Juenge, Eric C., **72:** 617
Shyam, K. *See* Dimmock, J. R., **72:** 887
Silber, Bernie M.; Holford, Nicholas H. G.; Riegelman, Sidney: Dose-dependent elimination of propranolol and its major metabolites in humans, **72:** 725
Simonelli, Anthony P. *See* Radebaugh, Galen W., **72:** 415, 422
Simpson, David R. *See* Theodorakis, Michael C., **72:** 130
Simpson, Michael *See* Parrott, Eugene L., **72:** 765
—; Parrott, Eugene L.: Dissolution kinetics of a three-component solid I: ethylparaben, phenacetin, and salicylamide, **72:** 757
Sims, D. *See* Hall, I. H., **72:** 1008
Sisenwine, Samuel F.; Kimmel, Hazel B.; Tio, Cesario O.; Liu, Ann L.; Ruelius, Hans W.: Determination of ciramadol in plasma by gas–liquid chromatography, **72:** 85
Sjöholm, Ingvar *See* Edman, Peter, **72:** 654, 658, 796
Skeggs, H. *See* Vandenheuvel, W. J. A., **72:** 782
Skellern, G. G. *See* Knight, B. I., **72:** 705
Skelly, Jerome P. *See* Shah, Vinod P., **72:** 309
Skierkowski, Paul *See* Beasley, Martin W., **72:** 505
Skinner, W. A.; Rosentreter, U.; Elward, T.: Tick repellents II: *N*-substituted azacyclopentanones and azacyclopentenones, **72:** 1354
Slattery, John T. *See* Wilson, John M., **72:** 1174; Zimmerman, Cheryl L., **72:** 1262
Sloan, K. B.; Hashida, M.; Alexander, J.; Bodor, N.; Higuchi, Takeru: Prodrugs of 6-thiopurines: enhanced delivery through the skin, **72:** 372
Smail, G. A. *See* Knight, B. I., **72:** 705
Smeach, Stephen *See* Wester, Ronald C., **72:** 745
Smeyers, Yves G.; Hernandez-Laguna, A.; von Carstenn-Lichterfelde, C.: Quantum mechanical calculations useful for determining the mechanism of action of fosfomycin, **72:** 1011
Smith, David E.; Lau, Henry S. H.: Determinants of bumetanide response in the dog: effect of indomethacin, **72:** 1298
Smith, Diane *See* Briggs, Colin J., **72:** 918
Smith, Francis X. *See* Gardner, Mark J., **72:** 348
Smith, P. J. *See* Dimmock, J. R., **72:** 887
Smith, Randall B. *See* Wills, Robert J., **72:** 1127
Smith, Robert V.; Davis, Patrick J.; Kerr, Kathleen M.: Microbial transformations of pergolide to pergolide sulfoxide and pergolide sulfone, **72:** 733
Smith-Verdier, P. *See* Galvez, E., **72:** 881
Soda, David M. *See* Chou, Ruby C., **72:** 1230
Sokoloski, T. D.; Wu, C. C.; Wu, L. S.; Burkman, A. M.: Interaction of nitroglycerin with human blood components, **72:** 335
Soliman, Raafat; Mokhtar, Hassan; Mohamed, Hosny F.: Synthesis and antidiabetic activity of some sulfonylurea derivatives of 3,5-disubstituted pyrazoles, **72:** 999
—; Mokhtar, Hassan; Mohamed, Hosny F.: Synthesis and antidiabetic activity of some sulfonylurea derivatives of 3,4,5-trisubstituted pyrazoles, **72:** 1004
Soll, Adam *See* Fruncillo, Richard J., **72:** 826
Sothmann, Aslak *See* Marvola, Martti, **72:** 1034
Spain, M. *See* Cosyns, L., **72:** 275
Speak, R. *See* Daoud, N. N., **72:** 290
Spillane, William J.; McGlinchey, Gráinne; O'Muircheartaigh, Iognaid; Benson, G. Anthony: Structure–activity studies on sulfamate sweeteners III: structure–taste relationships for heterosulfamates, **72:** 852
Srivastava, R. C. *See* Bhise, S. B., **72:** 599
Srivastva, Devendra N. *See* Farquhar, David, **72:** 324
Stalars, M. C. *See* Monot, C., **72:** 35
Stamm, A. *See* Seth, P., **72:** 971
Stampfli, Herman F. *See* Yacobi, Avraham, **72:** 556, 789
Stanski, Donald R.: review of "Radioimmunoassay and Related Procedures in Medicine–1982", **72:** 1234
—; Burch, Patrick G.; Harapat, Sandra; Richards, Richard K.: Pharmacokinetics and anesthetic potency of a thiopental isomer, **72:** 937
Stavchansky, S.; Wallace, J. E.; Wu, P.: Thermal and photolytic degradation studies of promethazine hydrochloride: a stability-indicating assay, **72:** 546
Steindler, Kathy A. *See* Tsuji, Kiyoshi, **72:** 23
Stella, Valentino J. *See* Yamaoka, Yumiko, **72:** 400
Sternson, L. A. *See* Riley, C. M., **72:** 351
Stewart, James T.: review of "Handbook of Chemical Property Estimation Methods", **72:** 102
Stewart, Kenneth R. *See* Gupta, V. Das, **72:** 1470
Stoeckel, Klaus *See* McNamara, Patrick J., **72:** 834
Stohs, S. J. *See* Ezzedeen, F. W., **72:** 1036
Straughn, A. B. *See* Ringhand, H. P., **72:** 1409
Stump, Decherd *See* Kohlhof, Kenneth J., **72:** 961
Suaréz, Luis *See* Veng-Pedersen, Peter, **72:** 1098, 1483
Sugimoto, Kazuko *See* Nakano, Masahiro, **72:** 378
Sugiyama, Seiyu *See* Kawabata, Nobuo, **72:** 1162
Sugiyama, Yuichi; Kimura, Seiichi; Lin, Jiunn, Huei; Izukura, Makoto; Awazu, Shoji; Hanano, Manabu: Effects of organic anions on the uptake of 1-anilino-8-naphthalenesulfonate by isolated liver cells, **72:** 871
Sum, Check Y. *See* Yacobi, Avraham, **72:** 710
Swanson, D. *See* Theeuwes, F., **72:** 253
Szadowska, Anna *See* Majchrzak, Michał W., **72:** 304
Szente, Lajos *See* Pitha, Josef, **72:** 665

T

Tafur, Susan: review of "The Alkaloids, Chemistry and Physiology, Vol. 19", **72:** 210
review of "The Alkaloids Chemistry and Physiology, Vol. 20", **72:** 210
Tagami, Shoichiro; Maeda, Hiromi: Application of the ammonia gas-sensing electrode: determination of drugs having a carbothionamido group by decomposition with acid, **72:** 988
Tait, David L. *See* Waddell, Thomas G., **72:** 1474
Takahashi, Lloyd T. *See* Marsh, Dennis F., **72:** 521
Takahashi, S.; Yano, S.; Nagaoka, Y.; Kawamura, K.; Minami, S.: A highly sensitive pyrogen test for antibiotics I: detection of trace amounts of endotoxin in injectable sodium ampicillin preparations, **72:** 739
Takenaka, Hideo *See* Kawashima, Yoshiaki, **72:** 514
Tamar, Swasono R.; Moore, Douglas E.: Photolytic decomposition of hydrochlorothiazide, **72:** 180
Tamir, Ilana; Lichtenberg, Dov: Correlation between the psychotropic potency of cannabinoids and their effect on the ^{1}H-NMR spectra of model membranes, **72:** 458
Tang-Liu, D. Dan-Shya; Tozer, Thomas N.; Riegelman, Sidney: Dependence of renal clearance on urine flow: A mathematical model and its application, **72:** 154
Taulbee, J. D. *See* Lijana, R. C., **72:** 119
Taylor, P.; Braddock, P. D.; Ross, S.: Quantitative determination of hexamidine isethionate in pharmaceutical preparations by high-performance liquid chromatography, **72:** 1477
Taylor, William F. *See* Johnson, David M., **72:** 946
Telang, Vasant G. *See* Scott, K. R., **72:** 183
Terasaki, Tetsuya *See* Tsuji, Akira, **72:** 1239
Thakker, Kamlesh M.: Predicting the dose-dependent bioavailability of hydrocortisone and chlorothiazide in humans, **72:** 577
Theeuwes, F.; Swanson, D.; Wong, P.; Bonsen, P.; Place, V.; Heimlich, K.; Kwan, K. C.: Elementary osmotic pump for indomethacin, **72:** 253
Theodorakis, Michael C.; Hillidge, Christopher J.; Allhands, Roger A.: External scintigraphy in evaluating delivery techniques of sodium cromolyn–[^{99m}Tc]diethylenetriaminepentacetic acid aerosol in the lungs of the horse, **72:** 580
—; Simpson, David R.; Leung, Dominic M.; Devous, Michael, Sr.: External scintigraphy in monitoring the behavior of pharmaceutical formulations *in vivo* I: Technique for acquiring high-resolution images of tablets, **72:** 130
Thompson, Geoffrey F. *See* Johnson, David M., **72:** 946
Thomson, T. *See* Hoffman, D. J., **72:** 1342
Thornton, Larry K. *See* Cox, Don C., **72:** 910
Tillement, J. P. *See* Houin, G., **72:** 71
Tilley, Jeff *See* Dixon, Ross, **72:** 100
Tinant, B. *See* Azibi, M., **72:** 232
Tio, Cesario O. *See* Sisenwine, Samuel F., **72:** 85
Tobino, Yukiko *See* Nakano, Masahiro, **72:** 378
Tomás Vert, F. *See* Vicente-Pedrós, F., **72:** 565
Tomida, Hisao; Schwartz, Michael A.: Further studies on the catalysis of hydrolysis and aminolysis of benzylpenicillin by metal chelates, **72:** 331
Torres, Lolita *See* Elsohly, Mahmoud A., **72:** 792
Tozer, Thomas N. *See* Tang-Liu, D. Dan-Shya, **72:** 154

—; Gambertoglio, John G.; Furst, Daniel E.; Avery, Denis S.; Holford, Nicholas H. G.: Volume shifts and protein binding estimates using equilibrium dialysis: application to prednisolone binding in humans, **72:** 1442

Trager, William F. *See* Bush, Ernie, **72:** 830

Trejueque Monge, J. *See* Vicente-Pedrós, F., **72:** 565

Treml, Suzanne B. *See* Burke, David H., **72:** 824

Trigo, G. G. *See* Galvez, E., **72:** 881

Tritsch, J. C. *See* Seth, P., **72:** 971

Tse, Francis L. S.; Ballard, Frances; Jaffe, James M.: Biliary excretion of [^{14}C]temazepam and its metabolites in the rat, **72:** 311

Tserng, Kou-Yi: Gas chromatographic–mass spectrometric quantitation of theophylline and its metabolites in biological fluids, **72:** 526

Tsuji, Akira *See* Miyamoto, Etsuko, **72:** 651

—; Yoshikawa, Takayoshi; Nishide, Kazunori; Minami, Hidemi; Kimura, Motonobu; Nakashima, Emi; Terasaki, Tetsuya; Miyamoto, Etsuko; Nightingale, Charles H.; Yamana, Tsukinaka: Physiologically based pharmacokinetic model for β-lactam antibiotics I: tissue distribution and elimination in rats, **72:** 1239

Tsuji, Kiyoshi *See* Kane, Michael P., **72:** 30

—; Rahn, Paul D.; Steindler, Kathy A.: ^{60}Co-irradiation as an alternate method for sterilization of penicillin G, neomycin, novobiocin, and dihydrostreptomycin, **72:** 23

Tsuruoka, Michio *See* Uekama, Kaneto, **72:** 1338

Tuckerman, Murray M.: review of "Analytical Profiles of Drug Substances, Vol. 11", **72:** 582

Tur, Ethel *See* Guy, Richard H., **72:** 1077

Turner, Carlton E. *See* Watson, Edna S., **72:** 954

U

Ueda, Ikuo; Shimojo, Fumio; Kozatani, Jun: Effect of ethyl cellulose in a medium-chain triglyceride on the bioavailability of ceftizoxime, **72:** 454

Ueda, Masumi *See* Kawashima, Yoshiaki, **72:** 514

Uekama, Kaneto; Fujinaga, Toshio; Hirayama, Fumitoshi; Otagiri, Masaki; Yamasaki, Masaki; Seo, Hakaru; Hashimoto, Tsuyoshi; Tsuruoka, Michio: Improvement of the oral bioavailability of digitalis glycosides by cyclodextrin complexation, **72:** 1338

Umeno, Yukihiko *See* Marunaka, Teruyoshi, **72:** 87

Underberg, W. J. M.; Lingeman, H.: Aspects of the chemical stability of mitomycin and porfiromycin in acidic solution, **72:** 549

—; Lingeman, H.: Determination of pK_a values of some prototropic functions in mitomycin and porfiromycin, **72:** 553

V

Vahervuo, Kari *See* Marvola, Martti, **72:** 1034

Valvani, Shri C. *See* Yalkowsky, Samuel H., **72:** 866, 1014

Vanbelle, M. *See* Buydens, L., **72:** 1327

Van Campen, L.; Amidon, G. L.; Zografi, George: Moisture sorption kinetics for water-soluble substances I: theoretical considerations of heat transport control, **72:** 1381

—; Amidon, G. L.; Zografi, George: Moisture sorption kinetics for water-soluble substances II: experimental verification of heat transport control, **72:** 1388

—; Amidon, G. L.; Zografi, George: Moisture sorption kinetics for water-soluble substances III: theoretical and experimental studies in air, **72:** 1394

Vanden Driessche, R. *See* Buydens, L., **72:** 1327

Vandenheuvel, W. J. A.; Skeggs, H.; Arison, B. H.; Wislocki, P. G.: Identification of *in vitro* (rat liver postmitochondrial S9 fraction) metabolites of the antiprotozoal agent 3a,4,5,6,7,7a-hexahydro-3-(1-methyl-5-nitro-1*H*-imidazol-2-yl)-1,2-benzisoxazole, **72:** 782

Van Meerssche, M. *See* Azibi, M., **72:** 232

Van Peer, Achiel *See* Garrett, Edward R., **72:** 1045

Veng-Pedersen, Peter; Brashear, R. E.: Kinetic interpretation of the microparameters in compartmental modeling when adjoining compartments are sampled, **72:** 576

—; Brashear, R. E.; Karol, M. D.: Theophylline blood–brain barrier transfer kinetics in dogs, **72:** 951

—; Suaréz, Luis: Model-independent method of predicting peak, trough, and mean steady-state levels in multiple intravenous bolus dosing in nonlinear pharmacokinetics, **72:** 1098

—; Suaréz, Luis: Practical solution to the Michaelis–Menten equation, **72:** 1483

Vicente-Pedrós, F.; Trejueque Monge, J.; Tomás Vert, F.: Antidiabetic behavior of biguanides, **72:** 565

Villegas-Navarro, Arturo; Morales-Aguilera, Antonio; Posada-Retana, Artemisa: Comparison of UV and fluorescence spectrophotometry for the quantification of a potent myotonia inducer: anthracene-9-carboxylic acid, in plasma, urine, and saline perfusion fluids, **72:** 1221

Voges, R. *See* Kreuter, Jörg, **72:** 1146

Volpe, Frank *See* Gaddipati, Nehru, **72:** 1398

von Carstenn-Lichterfelde, C. *See* Smeyers, Yves G., **72:** 1011

Voorstad, P. Josée *See* Cocolas, George H., **72:** 812; Hall, I. H., **72:** 845, 1192

W

Waddell, Thomas G.; Gebert, Paul H.; Tait, David L.: Michael-type reactions of tenulin, a biologically active sesquiterpene lactone, **72:** 1474

Wade, K. E. *See* Ludden, T. M., **72:** 693

Wagner, Henry N., Jr. *See* Guilarte, Tomas R., **72:** 90

Wagner, John G.: Modified Wagner–Nelson absorption equations for multiple-dose regimens, **72:** 578

Pharmacokinetic absorption plots from oral data alone or oral/intravenous data and an exact Loo–Riegelman equation, **72:** 838

Wallace, J. E. *See* Stavchansky, S., **72:** 546

Wallace, S. M. *See* Hindmarsh, K. W., **72:** 176

Walsh, T. D. *See* Grabinski, Patricia Y., **72:** 27

Watanabe, Hisako *See* Bailey, Keith, **72:** 1084

Watanabe, Keizo *See* Matsumura, Kugako, **72:** 570

Watson, Edna S. *See* Elsohly, Mahmoud A., **72:** 792

—; Murphy, James C.; Turner, Carlton E.: Allergenic properties of naturally occurring cannabinoids, **72:** 954

Watson, J. R. *See* Matsui, F., **72:** 1223

Wedlund, Peter J.; Chang, Shih-Ling; Levy, René H.: Steady-state determination of the contribution of lung metabolism to the total body clearance of drugs: application to carbamazepine, **72:** 860

—; Levy, René H.: Time-dependent kinetics VII: effect of diurnal oscillations on the time course of carbamazepine autoinduction in the rhesus monkey, **72:** 905

Wei, C. L. *See* Brown, L. R., **72:** 1181

Weiner, Norman D. *See* Ganesan, Madurai G., **72:** 1465; Schwinke, David L., **72:** 244

Wells, Clyde E. *See* Juenge, Eric C., **72:** 617

—; Juenge, Eric C.; Furman, William B.: Simultaneous assay of thioridazine and its major metabolites in plasma at single dosage levels with a novel report of two ring sulfoxides of thioridazine, **72:** 622

Welscher, Teresa M. *See* Chang, Shaw F., **72:** 236

Welsh, Victoria J. *See* Alich, Agnes A., **72:** 1457

Weng, Ho-Lun; Parrott, Eugene L : Dissolution apparatus for gels, **72:** 186

Wester, Ronald C. *See* Guy, Richard H., **72:** 1077

—; Noonan, Patrick K.; Smeach, Stephen; Kosobud, Larry: Pharmacokinetics and bioavailability of intravenous and topical nitroglycerin in the rhesus monkey: estimate of percutaneous first-pass metabolism, **72:** 745

White, Joe L. *See* Scholtz, Edward C., **72:** 973; Serna, Carlos J., **72:** 769

White, Ronald E. *See* Wright, George C., **72:** 1361

Whitfield, Lloyd R.; Levy, Gerhard: Pharmacokinetics of heparin V: *in vivo* and *in vitro* factors affecting the relationship between concentration and anticoagulant effect of heparin in rat plasma, **72:** 1141

Widder, Kenneth J.: review of "Controlled Release Delivery Systems", **72:** 1235

Wiegand, Ulf W. *See* Chou, Ruby C., **72:** 716, 1230

Williams, G. L. *See* Hindmarsh, K. W., **72:** 1039

Williams, Roger L. *See* Park, George B., **72:** 817

Willingham, W., Jr. *See* Hall, I. H., **72:** 626

Wills, Robert J.; Smith, Randall B.; Yakatan, Gerald J.: Dose-dependent pharmacokinetics and biliary excretion of bromophenol blue in the rat, **72:** 1127

Wilson, John M.; Slattery, John T.: Maintenance-dose prediction based on a single determination of concentration: dose of parent drug required to give a desired steady-state concentration of metabolite, **72:** 1174

Winefordner, J. D. *See* Bateh, Ricky P., **72:** 559

Winer, Nathaniel *See* Mason, William D., **72:** 819

Wislocki, P. G. *See* Vandenheuvel, W. J. A., **72:** 782

Wittmers, Lorentz E., Jr. *See* Alich, Agnes A., **72:** 1457

Wollert, Uwe *See* El-Gamal, Safaa, **72:** 202

Wong, Albert B.; Lin, Shu-Fen; Connors, Kenneth A.: Stability constants for complex formation between α-cyclodextrin and some amines, **72:** 388

Wong, Michelle P.; Connors, Kenneth A.: Kinetic study and analytical application of the hexadecyltrimethylammonium bromide-catalyzed reaction of 1-fluoro-2,4-dinitrobenzene with amines, **72:** 146

Wong, P. *See* Theeuwes, F., **72:** 253

Wood, John H.: review of "Pharmaceutical Dosage Forms: Tablets Vol. 3", **72:** 102

Wright, George C.; Schwan, Thomas J.; Goldenberg, Marvin M.; White, Ronald E.: 2,3-Dihydro-4*H*-1-benzopyran-4-one *O*-carbamoyloximes, a series of gastric antisecretory agents, **72:** 1361

Wu, C. C. *See* Sokoloski, T. D., **72:** 335

Wu, L. S. *See* Sokoloski, T. D., **72:** 335

Wu, Maw-Sheng: Determination of concentration-dependent water diffusivity in a keratinous membrane, **72:** 1421

Wu, P. *See* Stavchansky, S., **72:** 546

Wu, P. L.; Martin, A.: Extended Hildebrand solubility approach: *p*-hydroxybenzoic acid in mixtures of dioxane and water, **72:** 587

Wycpalek, Alan F. *See* McChesney, James D., **72:** 1131

Y

Yacobi, Avraham; Kamath, Burde L.; Lai, Chii-Ming; Stampfli, Herman F.: Tissue distribution of [^{14}C]bretylium tosylate in rats, **72:** 556

—; Kamath, Burde L.; Stampfli, Herman F.; Look, Zee M.; Lai, Chii-Ming: Age-related pharmacokinetics of *N*-acetylprocainamide in rats, **72:** 789

—; Kartzinel, Ronald; Lai, Chii-Ming; Sum, Check Y.: Esmolol: a pharmacokinetic profile of a new cardioselective β-blocking agent, **72:** 710

Yakatan, Gerald J. *See* Wills, Robert J., **72:** 1127

Yalkowsky, Samuel H.: review of "Topics in Pharmaceutical Sciences", **72:** 209

—; Valvani, Shri C.; Johnson, Benjamin W.: *In vitro* method for detecting precipitation of parenteral formulations after injection, **72:** 1014

—; Valvani, Shri C.; Roseman, T. J.: Solubility and partitioning VI: octanol solubility and octanol–water partition coefficients, **72:** 866

Yamada, Hideo *See* Hirano, Koichiro, **72:** 602, 608

Yamada, Jun-Ichiro *See* Yamamura, Keiko, **72:** 958

Yamada, K.; Shizuri, Y.; Ishida, Y.; Shibata, S.: Cardiac inhibitory action of constituents of the marine green alga *Ulva pertusa*, **72:** 945

Yamamura, Keiko; Nakao, Makoto; Yamada, Jun-Ichiro; Yotsuyanagi, Toshihisa: Simultaneous determinations of cefsulodin and cefotiam in serum and bone marrow blood by high-performance liquid chromatography, **72:** 958

Yamana, Tsukinaka *See* Miyamoto, Etsuko, **72:** 651; Tsuji, Akira, **72:** 1239

Yamaoka, Yumiko; Roberts, Richard D.; Stella, Valentino J.: Low-melting phenytoin prodrugs as alternative oral delivery modes for phenytoin: a model for other high-melting sparingly water-soluble drugs, **72:** 400

Yamasaki, Masaki *See* Uekama, Kaneto, **72:** 1338

Yamazaki, Iwao *See* Okada, Hiroaki, **72:** 75

Yang, I.-C. *See* Chowhan, Z. T., **72:** 983, 1097

Yano, S. *See* Takahashi, S., **72:** 739

Yashiki, Takatsuka *See* Okada, Hiroaki, **72:** 75, 173

Yata, Noboru *See* Nishihata, Toshiaki, **72:** 280

Yau, Martin K. T.; Meyer, Marvin C.: *In vivo–in vitro* correlations with a commercial dissolution simulator II: papaverine, phenytoin, and sulfisoxazole, **72:** 681

Yeom, Young Il *See* Kim, Hyun Pyo, **72:** 225

Yip, Y. W.; Po, A. Li Wan; Irwin, W. J.: Kinetics of decomposition and formulation of hydrocortisone butyrate in semiaqueous and gel systems, **72:** 776

Yoshikawa, Takayoshi *See* Tsuji, Akira, **72:** 1239

Yotsuyanagi, Toshihisa *See* Yamamura, Keiko, **72:** 958

Yu, Byung Sul; Lee, Sang Jong; Lee, Seung Jin; Chung, Hyun Ho: Molecular interaction between riboflavin and salicylic acid derivatives in nonpolar solvents, **72:** 592

Z

Zanatta, Nilo; Rittner, Roberto: Synthesis of 4-substituted *N*-[(dimethylamino)methyl]-benzamides: new compounds, **72:** 831

Zapata, Mary I. *See* Scholtz, Edward C., **72:** 973

Ziegler, R. *See* Anders, R., **72:** 1481

Zimmerman, Cheryl L.; Slattery, John T.: Maintenance-dose prediction based on a single determination of concentration: general applicability to two-compartment drugs with reference to lithium, **72:** 1262

Zimmerman, James J.: Use of Metzler's NONLIN program for fitting discontinuous absorption profiles, **72:** 138

Zimmerman, Laurie A. *See* Pivnichny, James V., **72:** 1447

Zizzamia, Joseph A. *See* Kohlhof, Kenneth J., **72:** 961

Zoglio, M. A. *See* Carstensen, J. T., **72:** 208

Zografi, George *See* Van Campen, L., **72:** 1381, 1388, 1394

review of "Encyclopedia of Emulsion Technology, Vol. 1: Basic Theory", **72:** 719

Zon, Gerald; Ludeman, Susan Marie; Özkan, Günay; Chandrasegaran, Srinivasan; Hammer, Charles F.; Dickerson, Ruth; Mizuta, Kazutaka; Egan, William: Synthesis and evaluation of 3-halocyclophosphamides and analogous compounds as novel anticancer "pro-prodrugs", **72:** 687

Zupon, M. A.; Fang, S. M.; Christensen, J. M.; Petersen, R. V.: *In vivo* release of norethindrone coupled to a biodegradable poly(α-amino acid) drug delivery system, **72:** 1323

A

Absorption—aspirin, influence of food, **72:** 819
—efficiency, solid dispersions of testosterone with reduced presystemic inactivation, **72:** 708
—fitting discontinuous profiles, use of NONLIN program, **72:** 138
—kinetics and steady-state plasma concentrations of theophylline following therapeutic doses of two sustained-release preparations, **72:** 158
—studies of practically water-insoluble drugs following injection, comparison of subcutaneous absorption rates from aqueous suspensions, mouse, rat, rabbit, **72:** 608
—studies on practically water-insoluble drugs following injection, plasma concentration after different subcutaneous doses of a drug in aqueous suspensions in rats, **72:** 602
—systemic, Δ^9-tetrahydrocannabinol after ophthalmic administration, rabbits, **72:** 136
—triazolam in mice, drug–diet mixtures, measurement by α-hydroxytriazolam excretion in urine, **72:** 1185
—Wagner–Nelson equations, multiple-dose regimens, one-compartment open model, **72:** 578

Absorption, GI—antacid effects on riboflavin, **72:** 121
—effects of surfactants, β-lactam antibiotics, **72:** 651

Absorption, intestinal—amino acid derivatives, structural requirements for membrane hydrolysis, rats, **72:** 943

Absorption, percutaneous—flufenamic acid, effect of dimethyl sulfoxide and/or nonionic surfactants, **72:** 857
—hydration, influence on *n*-alkanol through rat skin, Swiss and hairless mice comparison, **72:** 79
—methyl nicotinate, noninvasive assessments by laser Doppler velocimetry and photopulse plethysmography, pharmacokinetics, **72:** 1077

Absorption, rectal—gentamicin, sodium salicylate adjuvant, effect of ionic strength and specificity, **72:** 1134

Absorption, vaginal—luteinizing hormone-releasing hormone, leuprolide, effect of estrous cycle on vaginal absorption of hydrophilic model compounds, **72:** 173
—luteinizing hormone-releasing hormone analogue in rats, mechanism of absorption enhancement with organic acids, **72:** 75

Accumulation ratios—impact of lag time, effect of dosing, **72:** 833

Acebutolol—corneal permeability in rabbits, pharmacokinetics, *in vitro–in vivo* correlations, **72:** 1279

Acetaminophen—absolute and relative bioavailability of oral preparations, determination by high-performance liquid chromatography, **72:** 955
—concomitant administration with chlorzoxazone, analysis in human plasma and urine, effect on pharmacokinetics, **72:** 991
—interaction with aluminum hydroxide, crossover study in rabbits, pharmacokinetics, **72:** 828
—renal clearance of inorganic sulfate in rats, effect of induced depletion of endogenous sulfate, **72:** 213
—simultaneous determination of guaifenesin, pseudoephedrine, pholcodine, and paraben preservatives in cough mixture by high-performance liquid chromatography, **72:** 196

***N*-Acetylation**—substituted anilines, enzymatic acetyltransferase, rate determination using information-teoretic topological indices, **72:** 934

Acetylcholinesterase inhibitors—a simple radiometric *in vitro* assay, **72:** 90

***N*-Acetyl-D-mannosamine**—synthesis of acetamido and trifluoroacetamido analogues, effects on the proliferation of Friend leukemia cells, **72:** 748

***N*-Acetylprocainamide**—oral and intravenous pharmacokinetics in rats, bioavailability, age-related changes, **72:** 789

α_1-Acid glycoproteins—binding of several phenothiazine neuroleptics to a common binding site, orosomucoid, **72:** 202

Acrylic microspheres—*in vivo*, antitumor effect of microparticles with immobilized L-asparaginase against lymphoma, **72:** 654
—*in vivo*, morphological studies on mice and cultured macrophages, polyacrylamide, liver, spleen, marrow, **72:** 658

Acyloxymethyl groups—biologically reversible phosphate-protective groups, **72:** 324

Adenosine—extracted from the marine green alga (*Ulva pertusa*), cardioinhibitory effects, **72:** 945

Adenosine 3′,5′-monophosphate—dibutyryl and monobutyryl derivatives, lung tissue and perfusate, separation by isocratic ion pair high-performance liquid chromatography, **72:** 1255

β-Adrenergic blocking agents—esmolol hydrochloride, pharmacokinetic profile, metabolism, **72:** 710
—propranolol, room temperature phosphorescence determination, tablets and injections, **72:** 559

Adsorption, *in vitro*—phenobarbital onto activated charcoal, desorption, binding, **72:** 82

Adsorption, surface—insulin, prevention of self-association, **72:** 228

Aerosols, inhalation—spray pattern characterizations using photography and TLC, **72:** 380

Agarose—immobilization of urokinase on matrices, effect on spacer length, enzyme activity, **72:** 225

Aggregation—minimization, solubility of neutral insulin solutions, lysine solubility, **72:** 1472

Albumin—effect on removal of taurocholate by the liver, **72:** 1232, 1233

Albumin, human serum—esterase-like activity, acylation with *N-trans*-cinnamoylimidazoles, kinetics, **72:** 385
—kinetics of reaction with trinitrobenzenesulfonate, location of drug binding site, fluorescence spectroscopy, acetylation with aspirin, **72:** 432

Albumin microcapsules—release rate of phanacetin, effects of albumin concentration, 1-vinyl-2-pyrrolidinone polymer content, capsule size, **72:** 1057

Alizapride—new antiemetic compound, high-performance liquid chromatographic determination and dose-dependent pharmacokinetic application, **72:** 71

Alkoxyfuroic acid—solid-state interactions with microcrystalline cellulose, decomposition model, **72:** 1149

Allergenicity—naturally occurring cannabinoids, guinea pig maximization test for skin sensitivity, **72:** 954

Alprazolam—kinetics and equilibrium of reversible ring-opening reaction, **72:** 356
—*in vitro* detection of precipitation for injectable formulations, **72:** 1014

Alprostadil—transport through normal and diabetic rat hepatocytes, **72:** 296

Aluminum—method of analysis in pharmaceutical dosage forms, californium-252 thermal neutron activation, **72:** 561

Aluminum hydroxide—effect on rate and extent of acetaminophen absorption in rabbits, **72:** 828

Aluminum hydroxide gel—stabilization by specifically adsorbed carbonate, **72:** 769

Aluminum hydroxycarbonate—pH-stat titration, physicochemical interpretation, fiber optic Doppler anemometer analysis, dissolution data, **72:** 973

Amidomethylation reaction—synthesis of 4-substituted *N*-[(dimethylamino)methyl]benzamides, **72:** 831

Amikacin—quantitation in pharmaceutical dosage forms using the Hantzsch reaction, kanamycin, neomycin, tobramycin, **72:** 1470

Amines—complex formation with α-cyclodextrin, determination of stability constants and binding sites, **72:** 388

Amino acid derivatives—intestinal absorption, structural requirements for membrane hydrolysis, rats, **72:** 943

Aminopyrine—complex with barbital (pyrabital), direct preparation of solid particulates from droplets by a spray-drying technique, **72:** 514

Ammonia gas-sensing electrode—determination of carbothionamido groups, acid decomposition of ethionamide and prothionamide, **72:** 988

Amoxicillin—in-beam electron ionization mass spectra of penicillins, β-lactam antibiotics, **72:** 508

Ampicillin—bilirubin-displacing effects of indomethacin, chlorpromazine, gentamicin, and parabens, *in vitro* and in newborn infants, **72:** 248
—detection of trace amounts of endotoxin using ultrafiltration with pyrogen tests, chromogenic assay, **72:** 739
—determination of renal clearance using a computer analysis, **72:** 440
—in-beam electron ionization mass spectra of penicillins, β-lactam antibiotics, **72:** 508

Amrinone—plasma levels in humans after oral and intravenous doses, pharmacokinetics, bioavailability, **72:** 817

Analgesics—etodolac, sensitive high-performance liquid chromatographic method for determination in serum, **72:** 275
—GLC determination of ciramadol in plasma, **72:** 85
—potential, amide analogues of cinchophen, evaluation of CNS activity in mice, **72:** 1082

Analogues—*N*-acetyl-D-mannosamine, acetamido and trifluoroacetamido series, synthesis, effects on the proliferation of Friend leukemia cells, **72:** 748
—dibutyryl and monobutyryl cyclic AMP, lung tissue and perfusate, separation by isocratic ion pair high-performance liquid chromatography, **72:** 1255
—picrotoxin, synthesis, CNS activity, **72:** 1131

Anesthetic agents—potency of a thiopental isomer in mice, comparison with thiopental, **72:** 937
—synthesis and pharmacological activity of

benzo[*b*]thiophene-3-carboxylic acid derivatives, **72:** 198
Angiotensin-converting enzyme—synthesis and biological activity of an amino analogue of *N*-benzoyl-phenylalanyl-glycyl-proline, a tripeptide inhibitor, **72:** 63
1-Anilino-8-naphthalenesulfonate—determination of uptake into isolated rat liver cells using fluorescence enhancement, effect of organic anions, kinetics, **72:** 871
Antacids—effects on the GI absorption of riboflavin, **72:** 121
Anthelmintics—potential broad spectrum, design, synthesis, antiparasitic screening of certain 3,6-disubstituted-(7*H*)-*s*-triazolo[3,4-*b*][1,3,4]thiadiazine derivatives, **72:** 45
Anthracene—prediction of solubility in binary solvent systems based on molecular surface areas, **72:** 292
Antiarrhythmics—cibenzoline, radioimmunoassay in human plasma, **72:** 100
Antibiotics—^{60}Co-irradiation as an alternate method for sterilization, **72:** 23
Anticholinergics—synthesis and pharmacological activity of benzo[*b*]thiophene-3-carboxylic acid derivatives, **72:** 198
Anticoagulants—heparin, effect of concentration, *in vivo* and *in vitro* factors, pharmacokinetics, **72:** 1141
Anticonvulsants—potential, condensation of isatins with cyclohexanone and other cyclic ketones, **72:** 318
—synthesis of 3,3-diphenyl-2-pyrrolidone derivatives, maximal electroshock-induced seizures, mice, **72:** 700
—synthesis of 4-phenylsemicarbazides, **72:** 1213
—synthesis of some 2-methyl-3-phenylcarbamoyl-2,3-diazabicyclo[2.2.1]heptanes, **72:** 94
Antiemetics—high-performance liquid chromatographic determination and dose-dependent pharmacokinetic application of alizapride, **72:** 71
Antihistamines—doxylamine succinate, determination of doxylamine in human plasma by high-performance liquid chromatography, **72:** 961
—isopromethazine synthesis, **72:** 568
—promethazine hydrochloride, spectrophotometric analysis, various pharmaceutical formulations, **72:** 704
—pyrilamine, chemistry, pharmacology, metabolism, toxicology, mutagenicity, teratogenicity, carcinogenicity, literature survey, **72:** 3
—synthesis and pharmacological activity of benzo[*b*]thiophene-3-carboxylic acid derivatives, **72:** 198
Antihyperlipidemic agents—phthalimide analogues, cholesterol and triglyceride reduction, **72:** 845
—saccharin analogues, cholesterol and triglyceride reduction, **72:** 1192
—substituted 2-pyrrolidinone analogues, synthesis, hypolipidemic activity in mice, **72:** 812
Anti-inflammatory agents—etodolac, sensitive high-performance liquid chromatographic method for determination in serum, **72:** 275
—indomethacin, design and preliminary evaluation of an oral osmotic delivery system, **72:** 253
—potential, brusatol and related quassinoids, structure-activity relationships, **72:** 1282
Antileukemic agents—daphnane esters and lignans isolated from *Dirca occidentalis* (Thymelaeaceae), cytotoxicity, **72:** 1285
—podophyllotoxin esters, synthesis, **72:** 1158
—potential, acetamido and trifluoroacetamido analogues of *N*-acetyl-D-mannosamine, tested against Friend leukemia cells, **72:** 748
—potential, 2-(2-methyl-2-aminovinyl)-1-methylquinolinium iodides, synthesis, P-388 screen in mice, **72:** 1356
Antimicrobial activity—of sulfacetamide in ophthalmic solutions, effects of EDTA, steroids, preservatives, **72:** 1401
Antimicrobial agents—arylidenepyruvic acid thiosemicarbazone and thiazoline derivatives, synthesis, evaluation for antibacterial activity, **72:** 1226
—effect of nutrient depletion on sensitivity of *Pseudomonas cepacia*, **72:** 1363
—evaluation of various *N*-substituted azaspiranedione derivatives, **72:** 183
Antineoplastic agents—cyclophosphamide and *N*-halogenated derivatives, synthesis and NMR characterization, therapeutic efficacy in mouse cancers, **72:** 687
—potential, 3-dimethylamino-1-aryl-1-propanone hydrobromides, 3-dimethylamino-2-dimethylaminomethyl-1-aryl-1-propanone dihydrobromides, activity against P-388 lymphocytic leukemia growth, **72:** 887
Antiprotozoal agents—3a,4,5,6,7,7a-hexahydro-3-(1-methyl-5-nitro-1*H*-imidazol-2-yl)-1,2-benzisoxazole and its metabolites, characterization by NMR and mass spectrometry, **72:** 782
Antisecretory agents, gastric—potential, 2,3-dihydro-4*H*-1-benzopyran-4-one *O*-carbamoyloxime series, synthesis, evaluation in pylorus-ligated rats, **72:** 1361
Antisera—*d*- and *l*-ephedrine, cross-reactivity, use in stereospecific radioimmunoassays, **72:** 736
Antituberculous agents—potential, synthesis of sulfanilamido-naphthoquinones, **72:** 68
Antitumor agents—synthesis and antitumor activity of two analogues of ketocaine, potential, **72:** 814
Antitumor effect—acrylic microspheres, *in vivo*, microparticles with immobilized L-asparaginase against lymphoma, **72:** 654
Apparatus 2—USP dissolution test, systematic error using calibrator tablets, **72:** 910
Aqueous suspensions—studies on absorption of practically water-insoluble drugs following injection, plasma concentration after different subcutaneous doses in rats, **72:** 602
—studies on the absorption of practically water-insoluble drugs following injection, comparison of subcutaneous absorption rates, mouse, rat, rabbit, **72:** 608
Arylidenepyruvic acids—thiosemicarbazone and thiazoline derivatives, synthesis, antimicrobial effects, **72:** 1226
Ascorbic acid—titrimetric determination with 2,6-dichlorophenol indophenol in commercial liquid diets, **72:** 126
L-asparaginase—acrylic microspheres, *in vivo*, antitumor effect of microparticles with immobilized L-asparaginase against lymphoma, **72:** 654
Aspirin—acetylation of human serum albumin, **72:** 432
—disposition kinetics in rats, effect of water deprivation on metabolism, **72:** 1030
—gastric mucosal damage in the rat, protein-bound dye, histology, comparison with copper aspirinate, **72:** 1457
—high-performance liquid chromatography, phenylalanine ethyl ester as prodrug, **72:** 1093
—influence of food, comparison of tablets and buffered solutions, **72:** 819
—stability in media, human blood and plasma, hydrolysis kinetics, **72:** 1024
—thermal decomposition, formation of linear oligomeric salicylate esters, **72:** 322
Avermectins—direct determination in plasma at nanogram levels, high-performance liquid chromatography, isomerization by hydrolysis, **72:** 1447
Azaspiranedione—evaluation of various derivatives as potential antimicrobial agents, **72:** 183
Azobenzene—determination in phenylbutazone and sulfinpyrazone products by high-performance liquid chromatography, **72:** 1223

B

Barbital—complex with aminopyrine (pyrabital), direct preparation of solid particulates from droplets by a spray-drying technique, **72:** 514
Bayesian analysis—bioequivalence assessment, statistical methods, example and nomograms, **72:** 1178
Benzalkonium chloride—determination by chemical-ionization mass spectroscopy, alkyl chain lengths, **72:** 290
—high-performance liquid chromatography, ophthalmic systems, complex with methyl orange, **72:** 521
Benzoic acid—dissolution kinetics of a three-component solid, salicylic acid, salicylamide, **72:** 765
Benzo[*b*]thiophene-3-carboxylic acid derivatives—synthesis and pharmacological activity, local anesthetic, anticholinergic, and antihistaminic activity, **72:** 198
Benzoylecgonine—hydrolysis product of cocaine, stability evaluation and bioanalysis by high-performance liquid chromatography, **72:** 258
Benzoyl peroxide—degradation products, stability-indicating high-performance liquid chromatography, comparison with iodometric procedures, **72:** 1398
***N*-Benzoyl-phenylalanyl-glycyl-proline**—tripeptide inhibitor of angiotensin-converting enzyme, synthesis and biological activity of an amino analogue, **72:** 63
Benzylpenicillin—mechanism of hydrolysis and aminolysis, catalysis by divalent cations and amino alcohols, ternary complex formation, **72:** 331
Biliary excretion—bromophenol blue, rat urine, plasma, and bile, dose-dependent pharmacokinetics, **72:** 1127
Bilirubin—displacing effect of ampicillin, indomethacin, chloropromazine, gentamicin, and parabens, *in vitro* and in newborn infants, **72:** 248
Binary solvents—solubility, predictive expressions based on molecular surface areas, **72:** 292
Binding—furosemide, human albumin, comparison of two methods of fluorescence quenching analysis, **72:** 542
—ligand to proteins, difficulties in applying the Scatchard model, new mathematical tools, application to salicylates, **72:** 35
Bioactivity—comparative study of immunoactivity of sodium insulin, **72:** 692
Bioavailability—absolute and relative, oral acetaminophen preparations, determined by high-performance liquid chromatography, **72:** 955
—*N*-acetylprocainamide in rats after oral and intravenous administrations, age-related changes, **72:** 789
—amrinone after oral and intravenous doses, plasma levels, pharmacokinetics, **72:** 817
—cinromide, 3-bromocinnamamide, primate model, **72:** 493
—dose dependency, hydrocortisone, chlorothiazide, **72:** 577
—erythromycin stearate tablet formulation, dissolution rate, high-performance liquid chromatography, **72:** 979
—GLC determination, phendimetrazine, human plasma, serum, or urine, **72:** 519
—oral, digoxin, digitoxin, methyl digoxin, complexation with cyclodextrins, **72:** 1338
—oral ceftizoxime in rats, dogs, and humans, effect of ethylcellulose in medium-chain triglyceride, **72:** 454

—propylthiouracil, human plasma, correlation with *in vitro* dissolution, **72:** 1409
—studies involving subjects with intersubject coefficient of variation, assessment of 75/75 Rule, FDA viewpoint, **72:** 98, 99
—systemic absorption of Δ^9-tetrahydrocannabinol after ophthalmic administration, rabbits, **72:** 136
—topical nitroglycerin in the rhesus monkey, comparison with intravenous administration, pharmacokinetics, **72:** 745
Bioequivalence—assessment by Bayesian analysis, statistical methods, example and nomograms, **72:** 1178
—bioavailability studies involving subjects with intersubject coefficient of variation, assessment of 75/75 Rule, FDA viewpoint, **72:** 98
—studies involving subjects with intersubject coefficient of variation, FDA 75/75 Rule, **72:** 99
—*in vitro–in vivo* standard for phenytoin sodium capsules, dissolution, **72:** 309
Biological fluids—GC-mass spectrometric quantitation, theophylline and metabolites, infants, **72:** 526
Bisbrusatolyl esters—effects on protein synthesis of murine tumors, **72:** 626
β-Blocking agents—permeability characteristics, excised rabbit corneas, barrier contributions, **72:** 1272
—permeability characteristics, excised rabbit corneas, physicochemical factors, **72:** 1266
Blood–brain barrier—theophylline transfer in dogs, kinetics, **72:** 951
Blood clearance—polystyrene microspheres following intravenous administration, effect of nonionic surfactants, **72:** 1086
Blood sampling—serial, chronic cannulation procedure, rat jugular vein, pharmacokinetic studies, **72:** 1027
—serial collection from unanesthetized guinea pigs, **72:** 975
Body fluids—collection in the rat, literature survey, **72:** 465

BOOKS

Acta Farmaceutica Bonaerense, **72:** 1372
Advanced Interpretation of Clinical Laboratory Data. Vol. 13, **72:** 720
Advances in Chromatography. Vol. 20, **72:** 720
Advances in Steroid Analysis, **72:** 1235
Advances in Thyroid Neoplasia 1981, **72:** 583
The Alkaloids, Chemistry and Physiology, Vol. 19, **72:** 210
The Alkaloids Chemistry and Physiology, Vol. 20, **72:** 210
The Alkaloids, Vol. 11, **72:** 583
Analysis of Drugs and Metabolites By Gas Chromatography–Mass Spectrometry. Vol. 7, **72:** 720
Analytical Profiles of Drug Substances, Vol. 10, **72:** 101
Analytical Profiles of Drug Substances, Vol. 11, **72:** 582
Analytical Profiles of Drug Substances. Vol. II, **72:** 1235
Analyzing Experimental Data by Regression, **72:** 583
Annual Report 1981. International Agency for Research on Cancer, **72:** 583
Annual Review of Pharmacology and Toxicology, Vol. 22, **72:** 209
Antacids in the Eighties, **72:** 583
Antibiotics in Laboratory Medicine, **72:** 720
Antibiotics in the Management of Infections: Outlook for the 1980s, **72:** 721
Application of Pharmacokinetics to Patient Care, **72:** 1235
Applications of Mass Spectrometry to Trace Analysis, **72:** 583
Arsenic: Industrial, Biomedical, Environmental Perspectives, **72:** 721
Assessing Causes of Adverse Drug Reactions (With Special Reference to Standardized Methods), **72:** 1235
Atricular Synovium: Anatomy, Physiology, Pathology, Pharmacology, and Therapy, **72:** 583
Azospirillum: Genetics, Physiology, Ecology, **72:** 721
Basic Documents. 33rd Ed., **72:** 1371
Behavioral Models and the Analysis of Drug Action, **72:** 721
Benzodiazepines. A Handbook. (Basic Data, Analytical Methods, Pharmacokinetics and Comprehensive Literature), **72:** 1235
Biological Substances: International Standards Reference Preparations and Reference Reagents, **72:** 583
The Botany and Chemistry of Hallucinogens. 2nd Ed., **72:** 721
British National Formulary, Number 4 (1982), **72:** 1235
Cancer Incidence in Five Continents, Vol. IV, **72:** 1371
Cancer Incidence in Singapore 1968–1977, **72:** 1371
Cancer Mortality by Occupation and Social Class 1851–1971, **72:** 1235
Cardiovascular Survey Methods. 2nd Ed., **72:** 721
Catalog of Teratogenic Agents, 4th Ed., **72:** 1371
Central Analgetics, **72:** 1234
Chemotherapy of Malaria. 2nd Ed., **72:** 583
Chromatographic Separation and Extraction with Foamed Plastics and Rubbers, **72:** 1235
Chromatography and Mass Spectrometry in Biomedical Sciences 2, **72:** 1371
Chromatography of Alkaloids, Part A: Thin-Layer Chromatography, **72:** 1235
Chronopharmakologie—Tagesrhythmen und Arzneimittelwirkung, **72:** 1371
Circular Dichroic Spectroscopy: Excition Coupling in Organic Stereochemistry, **72:** 1371
Clinical and Biochemical Luminescence. Clinical and Biochemical Analysis Series, Vol. 12, **72:** 721
Clinical and Experimental Hypertension: Part B: Hypertension in Pregnancy, **72:** 583
Clinical Pharmacy and Hospital Drug Management, **72:** 583
Compendium of Current Source Materials for Drugs, **72:** 583
Compendium of Pharmaceuticals and Specialties. 7th Ed., **72:** 583
Complying With FDA Good Manufacturing Practice Requirements: How to Develop Your GMP/QA Manual, **72:** 1371
Comprehensive Analytical Chemistry Vol. XII—Thermal Analysis: Part B: Biochemical and Clinical Applications of Thermometric and Thermal Analysis, **72:** 583
Contemporary Heterocyclic Chemistry: Synthesis Reactions, and Applications, **72:** 721
Controlled Release Delivery Systems, **72:** 1235
Covalent Catalysis by Enzymes, **72:** 583
CRC Handbook of Chromatography Drugs. Vols. I and II, **72:** 102
Critical Stability Constants. Vol. 5. First Supplement, **72:** 1235
Crown Compounds. (Their Characteristics and Applications), **72:** 1235
Cyclodextrins and Their Inclusion Complexes, **72:** 1236
Depressive Disorders in Different Countries, **72:** 1371
Dermal and Transdermal Absorption, **72:** 1371
Development and Management of Research Groups, **72:** 721
Dictionary of Organic Compounds, 5th Ed., **72:** 582
Directory of On-going Research in Cancer Epidemiology, **72:** 721
Disposition of Toxic Drugs and Chemicals in Man. 2nd Ed., **72:** 583
Drug Benefit Formulary, No. 19, July 1983. PARCOST Comparative Drug Index, **72:** 1371
Drugs and Nursing Implications, 4th Ed., **72:** 1236
Drug Therapy in Obstetrics and Gyneclogy, **72:** 1236
Drug Treatment in Obstetrics: A Handbook of Prescribing, **72:** 1371
Drug Utilization in Norway During the 1970s—Increases, Inequalities, Innovations, **72:** 1371
Dynamics of Biological Membranes. (Influence on Synthesis, Structure and Function), **72:** 1236
Electrophoresis. A Survey of Techniques and Applications Part B: Applications, **72:** 721
Eleventh Annual Report, 1982: World Health Organization Special Programme of Research Development and Research Training in Human Reproduction, **72:** 1371
The Enchanted Ring (The Untold Story of Penicillin), **72:** 583
Encyclopedia of Emulsion Technology, Vol. 1: Basic Theory, **72:** 719
Endorphins: Chemistry, Physiology, Pharmacology and Clinical Relevance (Modern Pharmacology—Toxicology Series. Vol. 20), **72:** 583
Environmental Carcinogens—Selected Methods of Analysis. Vol. 4 (Some Aromatic Amines and Azo Dyes in the General and Industrial Environment), **72:** 583
Environmental Carcinogens—Selected Methods for Analysis, Vol. 5: Mycotoxins, **72:** 1371
Environmental Carcinogens—Selected Methods of Analysis, Vol. 6: *N*-Nitroso Compounds, **72:** 1372
Environmental Health Criteria 18: Arsenic, **72:** 1236
Environmental Health Criteria 19: Hydrogen Sulfide, **72:** 1236
Environmental Health Criteria 23: Lasers and Optical Radiation, **72:** 1372
Environmental Health Criteria 17: Manganese, **72:** 583
Environmental Health Criteria 25: Selected Radionuclides, **72:** 1372
Environmental Health Criteria 24: Titanium, **72:** 1372
Environmental Health Criteria 22: Ultrasound, **72:** 1372
The Essential Guide to Nonprescription Drugs, **72:** 1372
The Essential Guide to Prescription Drugs. 3rd Ed., **72:** 583
Ethics and Regulation of Clinical Research, **72:** 721
Family Formation Patterns and Health: An International Collaborative Study Colombia, Egypt, Pakistan, and the Syrian Arab Republic, **72:** 583
Field Guide to the Detection and Control of Xerophthalmia. 2nd Ed., **72:** 1236
The Fischer Indole Synthesis, **72:** 1372
Flavonoids and Bioflavonoids, 1981. Studies In Organic Chemistry II. (Proceedings of the International Bioflavonoids Symposium—6th Hungarian Bioflavonoid Symposium Munich, FRG 9-6-81), **72:** 1236
Formulation of Veterinary Dosage Forms, **72:** 1234
Frequently Prescribed and Abused Drugs. Reference Edition (Their Indications, Efficacy, Rational Prescribing), **72:** 583
From Genetic Experimentation to Biotechnology—The Critical Transition, **72:** 1236
Genetic Engineering Applications for Industry, **72:** 721

Glial–Neurone Interactions. Vol. 95, **72:** 584
Good Manufacturing Practices for Pharmaceuticals—A Plan for Total Quality Control. 2nd Ed., **72:** 842
Halogenated Hydrocarbons: Solubility–Miscibility with Water, **72:** 584
Handbook: Interactions of Selected Drugs and Nutrients in Patients. 3rd Ed., **72:** 721
Handbook of Chemical Property Estimation Methods, **72:** 102
Handbook of Clinical Drug Data. 5th Ed., **72:** 721
Handbook of Dissolution Testing, **72:** 581
Handbook of Enzyme Inhibitors (1965–1966), **72:** 584
Handbook of Metal Ligand Heats and Related Thermodynamic Quantities, 3rd Ed., **72:** 1372
Handbook of Resolutions and Decisions of the World Health Assembly and the Executive Board, Vol. II, 5th Ed. (1973-1982), **72:** 1372
Handbook of the Spinal Cord, Vol. I: Pharmacology, **72:** 1372
A Handbook on Drug and Alcohol Abuse: The Biomedical Aspects (2nd Ed.), **72:** 1372
Heterocyclic Chemistry: Vol. 2, **72:** 584
Hormone Drugs, **72:** 720
Hormone Receptors: Horizons in Biochemistry and Biophysics: Vol. 6, **72:** 584
Human Cancer Markers, **72:** 584
The Human Side of Statistical Consulting, **72:** 584
IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 29: Some Industrial Chemicals and Dyestuffs, **72:** 721
IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Supplement 3: Cross Index of Synonyms and Trade Names in Vols. 1 to 26., **72:** 721
IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Supplement 4: Chemicals, Industrial Processes and Industries Associated with Cancer in Humans—IARC Monographs Vols. 1–29, **72:** 721
IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Vol. 27: Some Aromatic Amines, Anthraquinones and Nitroso Compounds, and Inorganic Fluorides Used in Drinking Water and Dental Preparations, **72:** 1236
IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Vol. 28: The Rubber Industry, **72:** 1236
IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 30: Miscellaneous Pesticides, **72:** 1372
Immune Regulation. (Evolutionary and Biological Significance), **72:** 1236
Immunological Approaches to Cancer Therapeutics, **72:** 584
Index Nominum 1982. 11th Ed., **72:** 1236
Index Plantarum Medicinalium Totius Mundi Eorumque Synonymorum, **72:** 1372
Inflammatory Diseases and Copper, **72:** 584
International Drinking Water Supply and Sanitation Decade, **72:** 721
International Nonproprietary Names (INN) For Pharmaceutical Substances: Cumulative List No. 6, **72:** 1372
International Pharmaceutical Technology and Product Manufacture Abstracts, **72:** 1372
Introduction to Alkaloids—A Biogenetic Approach, **72:** 328
Ion-Selective Electrodes, 3. Analytical Chemistry Symposia Series—Vol. 8, **72:** 584
Kinetic Methods in Chemical Analysis Application of Computers in Analytical Chemistry, **72:** 1372
Laboratory Decontamination and Destruction of Aflatoxins B_1, B_2, G_1, G_2 In Laboratory Wastes, **72:** 584
Laboratory Decontamination and Destruction of Carcinogens in Laboratory Wastes: Some Nitrosamines, **72:** 1236
Laboratory Decontamination and Destruction of Carcinogens in Laboratory Wastes: Some Polycyclic Aromatic Hydrocarbons. (IARC Scientific Publication No. 49), **72:** 1372
Legislative Action to Combat the World Smoking Epidemic, **72:** 1236
Literature Guide to the GLC of Body Fluids, **72:** 1236
Macromolecular Chemistry, Vol. 2, **72:** 1236
Manual of Dermatological Therapeutics, **72:** 1372
Manual of Laboratory Pharmacokinetics, **72:** 1487
Marihuana: An Annotated Bibliography, Vol. II, **72:** 584
Measuring Change in Nutritional Status, **72:** 1372
Medical Applications of Clinical Nutrition, **72:** 1372
Methods in Environmental Virology, **72:** 1236
Modern Methods of Pharmaceutical Analysis, **72:** 582
Molecular Basis of Drug Action, **72:** 210
Molecular Electronic Devices, **72:** 721
Multivariate Data Analysis in Industrial Practice, **72:** 721
Mutagenicity: New Horizons in Genetic Toxicology, **72:** 584
Myasthenia Gravis, **72:** 1372
Narcotic Antagonists: Naltrexone Pharmacochemistry and Sustained-Release Preparations, **72:** 721
The Natural Coumarins: (Occurrence, Chemistry, and Biochemistry), **72:** 1236
Neurobiology, **72:** 721
Neurotransmission, Neurotransmitters, and Neuromodulators: Vol. 89, **72:** 584
New Approaches to Treatment of Chronic Pain: (A Review of Multidisciplinary Pain Clinics and Pain Centers), **72:** 721
New Drug Parade: A Historical Minireview 1954–1982, **72:** 1371
The New Regulatory Climate—Working Effectively With the FDA, **72:** 1372
New Zealand Medicinal Plants, **72:** 584
N-Nitroso Compounds: Occurrence and Biological Effects, **72:** 1486
Nonionizing Radiation Protection, **72:** 721
Nuclear Power: Health Implications of Transuranium Elements, **72:** 721
Nuclear Power Management of High-Level Radioactive Waste, **72:** 1372
Organic Pharmaceutical Chemistry, **72:** 584
Orphan Drugs, **72:** 1236
Particle Size Analysis, 1981, **72:** 1372
Patenting in the Biological Sciences, **72:** 584
Patents For Chemists, **72:** 1236
Pathology of Tumors in Laboratory Animals, Vol. 3: Tumors of the Hamster, **72:** 1486
Pediatric Nutrition: Infant Feedings–Deficiencies–Diseases. (Clinical Disorders in Pediatric Nutrition Series, Vol. 2), **72:** 721
Pesticides. Theory and Application, **72:** 721
Pharmaceutical Dosage Forms: Tablets Vol. 3, **72:** 102
Pharmaceutics and Pharmacy Practice, **72:** 101
Pharmacokinetics, 2nd Ed., **72:** 1370
Pharmacological Basis of Nursing Practice, **72:** 721
Pharmacology and Biochemistry of Psychiatric Disorders, **72:** 721
Pharmacology and Pharmacologists. An International Directory, **72:** 721
Pharmacology of Histamine Receptors, **72:** 1236
Pharmacology of Hydroxyethyl Starch: Use in Therapy and Blood Banking, **72:** 721
Pharmacy Practice: Social and Behavioral Aspects, 2nd Ed., **72:** 584
Photochemistry Vol. 12, **72:** 584
Physicochemical Principles of Pharmacy, **72:** 328
Plan of Action for Implementing the Global Strategy for Health for All and Index to the "Health for All" Series No. 1–7, **72:** 721
Polyether Antibiotics, Vol. 1: Naturally Occurring Acid Ionophores, **72:** 720
Prescriptions for Death: The Drugging of the Third World, **72:** 584
Presynaptic Receptors: Mechanism and Function, **72:** 721
Principles of Biochemical Toxicology, **72:** 584
Principles of Pharmaceutical Marketing. 3rd Ed., **72:** 721
Problems of Drug Dependence, NIDA Research Monograph 41. (Proceedings of the 43rd Annual Scientific Meeting, The Committee on Problems of Drug Dependence, Inc.), **72:** 1236
Proceedings of the First International Symposium on Cyclodextrins. (Budapest, Hungary, 30 September–2 October 1981), **72:** 1234
Progress in Medicinal Chemistry, Vol. 19, **72:** 1100
Propädeutische Arzneiformenlehre: Einfuhrung in die Arzneiformenlehre und Laboratoriums Praxis, **72:** 584
Prostaglandins: Organ- and Tissue-Specific Actions, **72:** 584
Psychopharmacology of Affective Disorders, **72:** 721
Psychopharmacology of Anticonvulsants, **72:** 584
Psychopharmacology of Old Age, **72:** 722
Quality Assurance in Diagnostic Radiology, **72:** 1236
Quality Assurance in Nuclear Medicine, **72:** 722
Radioimmunoassay and Related Procedures in Medicine–1982, **72:** 1234
Rattlesnake Venoms: Their Actions of Treatment, **72:** 584
Reactive Intermediates. Vol. 2, **72:** 722
Recent Advances in the Biology of Alcoholism, **72:** 581
Recent Developments in Cardiac Muscle Pharmacology, **72:** 1236
Recent Progress on Kinins. Agents and Actions Supplements, Vol. 9, **72:** 722
The Rights of Doctors, Nurses and Allied Health Professionals: A Health Law Primer, **72:** 722
Selected Petroleum Products: Environmental Health Criteria 20, **72:** 722
Selective Toxicity. The Physico-Chemical Basis of Therapy. 6th Ed., **72:** 722
Seventh General Programme of Work Covering the Period 1984–1989, **72:** 722
Shunts and Problems in Shunts, **72:** 584
Side Effects of Drugs Annual 7, **72:** 1486
Single Dose Therapy of Urinary Tract Infection, **72:** 722
Solvent Extraction and Ion Exchange, **72:** 1372
Species-Specific Potential of Invertebrates for Toxicological Research, **72:** 722
Steric Effects in Biomolecules. Studies in Physical and Theoretical Chemistry. Vol. 18. (Proceedings of the International Symposium Eger, Hungary, 10/5-8, 1981), **72:** 1236
The Tao of Medicine: Ginseng, Oriental

Remedies and the Pharmacology of Harmony, **72:** 722
Terpenoids and Steroids: Vol. 11, **72:** 584
Textbook of Organic Medicinal and Pharmaceutical Chemistry, 8th Ed., **72:** 328
Textbook of Pharmaceutical Formulation, **72:** 584
Topics in Pharmaceutical Sciences, **72:** 209
Trace Elements, Hair Analysis and Nutrition, **72:** 1372
The Treatment and Management of Severe Protein-Energy Malnutrition, **72:** 584
Trends in Autonomic Pharmacology. Vol. 2, **72:** 584
Trends in Inflammation Research 2, **72:** 720
Twentieth Century Druggist: Memoirs, **72:** 1372
The Use of Essential Drugs, **72:** 1372
USP XX NF XV Addendum a to Supplement #3, **72:** 584
USP XX NF XV Supplement 3. Cumulative with First Two Supplements, **72:** 584
Vacation Certificate Requirements For International Travel and Health Advice to Travellers, 1983, **72:** 1372
Veterinary Drug Index, **72:** 584
The World of WHO: 1980–1981, **72:** 584
1982 Year Book of Drug Therapy, **72:** 1236
1983 year Book of Drug Therapy, **72:** 1372

Bouvardin—conversion to *O*-desmethylbouvardin and bouvardin catechol, microbial transformation, *Streptomyces rutgersensis*, *Aspergillus ochraceous*, **72:** 1291
Bretylium tosylate—^{14}C-labeled, tissue distribution, rats, plasma, renal excretion, **72:** 556
Bromcresol green—promethazine hydrochloride spectrophotometric analysis, various pharmaceutical formulations, **72:** 704
3-Bromocinnamamide—active metabolite of cinromide, pharmacokinetics, bioavailability, **72:** 493
Bromophenol blue—in rat urine, plasma, and bile, dose-dependent pharmacokinetics, biliary excretion, **72:** 1127
Bronchodilator—tulobuterol, serum analysis, mass fragmentography, **72:** 570
Bruceantin—effects on protein synthesis of murine tumors, **72:** 626
Brusatol—effects on protein synthesis of murine tumors, **72:** 626
—related quassinoids, anti-inflammatory potential, structure–activity relationships, **72:** 1282
Buccal absorption—evaluation of protirelin, use as a diagnostic tool, measurement of thyrotropin and prolactin stimulation, **72:** 1481
Bufuralol—corneal permeability in rabbits, pharmacokinetics, *in vitro–in vivo* correlations, **72:** 1279
Bumetanide—pharmacokinetics, sodium excretion, dogs, effect of indomethacin pretreatment, **72:** 1298
Busulfan—determination in human plasma, GC–MS with selected-ion monitoring of 1,4-diiodobutane, **72:** 1203
Butabarbital sodium—application of postcolumn ionization in high-performance liquid chromatographic analysis, elixir, **72:** 1089

C

Caffeine—crystalline phase changes, anhydrous to hydrate, solubility studies, **72:** 837
—metabolite of theophylline, infants GC–mass spectrometric quantitation, biological fluids, **72:** 526
Calcium—effect on phase behavior of phospholipid bilayers, liposomes, neomycin, **72:** 1465
Calibrator tablets, USP—systematic error associated with Apparatus 2 of the dissolution test, **72:** 910
Californium-252—thermal neutron activation, method of simultaneously analyzing aluminum and magnesium, pharmaceutical dosage forms, **72:** 561
Cannabinoids—correlation between psychotropic potency and their effect on the ^{1}H-NMR spectra of model membranes, **72:** 458
—naturally occurring, allergenic properties, determined by the guinea pig maximization test for skin sensitivity, **72:** 954
Cannulation—chronic, rat jugular vein, serial blood samples for pharmacokinetic studies, **72:** 1027
Carbamazepine—autoinduction in the rhesus monkey, rate constant determination, effect of diurnal oscillations on drug metabolism, **72:** 905
—elimination *via* pulmonary metabolism in the rat, steady-state determination, **72:** 860
Carbinoxamine—GLC assay, nitrogen-sensitive detection, **72:** 1342
Cardioinhibitory effects—extracts of the marine green alga (*Ulva pertusa*), adenosine, **72:** 945
Catabolic activity—steroidal thiourea and thiazoline derivatives, *in vitro*, bovine pancreatic ribonuclease activity, **72:** 1205
Catecholamines—epinephrine, norepinephrine, isoproterenol, intercalative binding to polyadenylic acid, coil→helix transition, circular dichroism, **72:** 1450
Catha edulis—metabolism in humans, **72:** 1217
Cathinone—metabolism to *d*-norpseudoephedrine in humans, **72:** 1217
Cefazolin—effects of surfactants on GI absorption, **72:** 651
Cefotaxime sodium—kinetics and mechanism of degradation in aqueous solution, **72:** 59
Cefotiam—simultaneous determination with cefsulodin in serum and bone marrow blood, high-performance liquid chromatography, **72:** 958
Cefsulodin—simultaneous determination with cefotiam in serum and bone marrow blood, high-performance liquid chromatography, **72:** 958
Ceftizoxime—bioavailability of oral formulations in rats, dogs, and humans, effect of ethylcellulose in medium-chain triglyceride, **72:** 454
Cephalexin—determination of renal clearance using a computer analysis, **72:** 440
Cephalosporins—cefotaxime sodium, kinetics and mechanism of degradation in aqueous solution, **72:** 59
Cetomacrogol 1000—induction of hemolysis, peroxidation, hydroxyl radical participation, erythrocytes, **72:** 1461
Chemical-ionization mass spectroscopy—determination of benzalkonium chloride, alkyl chain lengths, **72:** 290
Chemotherapeutic agents—biologically reversible phosphate-protective groups, acyloxymethyl groups, as a means of traversing biological membranes, **72:** 324
—5-fluorouracil, concentration in rat plasma, bile, and parotid saliva, protein binding, pharmacokinetics *in vivo*, **72:** 597
Chlorobutanol—analysis in ophthalmic ointments and aqueous solutions by reverse-phase high-performance liquid chromatography, **72:** 277
Chlorothiazide—dose-dependent bioavailability, saturable absorption kinetics, **72:** 577
Chlorpromazine—bilirubin-displacing effects of ampicillin, indomethacin, gentamicin, and parabens, *in vitro* and in newborn infants, **72:** 248
—human plasma, high-performance liquid chromatographic determination of subnanogram levels, electrochemical detection, **72:** 1259
Chlorthalidone—high-performance liquid chromatography, stability-indicating assay, comparison with the USP analysis, **72:** 924
Chlorzoxazone—analysis in human plasma and urine, administration with acetaminophen; pharmacokinetics, **72:** 991
Cholesterol—antihyperlipidemic effect of phthalimide analogues, **72:** 845
—antihyperlipidemic effect of saccharin analogues, **72:** 1192
—model membranes, correlation between the psychotropic potency of cannabinoids and their effect on the ^{1}H-NMR spectra, **72:** 458
—solubilization in fatty acid salt solutions, dissolution in bile salt solutions, potential method for gallstone dissolution, **72:** 338
Choline chloride—effect on rectal absorption of gentamicin sulfate, adjuvant enhancement, **72:** 698
Chromogenic assay—ampicillin solution, detection of trace amounts of endotoxin in antibiotics, **72:** 739
Chylomicron—remnants as carriers for hepatographic agents, potential tumor- or organ-imaging agents, **72:** 898
Cibenzoline—new antiarrhythmic agent, radioimmunoassay in human plasma, **72:** 100
Cimetidine—inhibition of lidocaine and quinidine clearances in the rat, kinetics, **72:** 826
—polymorphic crystalline forms, X-ray structural studies, physicochemical properties, **72:** 1436
Cinchophen—amide analogue synthesis, evaluation of CNS activity in mice, **72:** 1082
Cinnamoylation—hydroxy compounds in acetonitrile, catalyzed by *N*-methylimidazole and 4-dimethylaminopyridine, kinetics, **72:** 366
—*n*-propyl alcohol, catalysis by *N*-methylimidazole and 4-dimethylaminopyridine, solvent effects, **72:** 369
Cinnamoylimidazoles—acylation of albumin, kinetics, **72:** 385
Cinromide—pharmacokinetics, 3-bromocinnamamide metabolite, bioavailability, first-pass effect, **72:** 493
—*in vivo* evaluation of Michaelis–Menten constant, medium extraction ratio drug, application to the rhesus monkey, **72:** 1352
Ciramadol—analgesics, GLC determination in plasma, **72:** 85
Cisplatin—analysis in urine, high-performance liquid chromatography using column-switching techniques, **72:** 351
Clearance—contribution to lung metabolism, steady-state determination using carbamazepine in the rat, **72:** 860
Clearance, renal—sulfamethizole, sulfanilamide, cephalexin, and ampicillin in the rabbit, dog, and human, determination using a computer analysis, **72:** 440
Clofibrate—degradation products, plasmolysis, red blood cell partitioning, plasma protein binding, **72:** 1309
CNS activity—picrotoxin lactone analogues, synthesis, **72:** 1131
CNS agents—amide analogues of cinchophen, evaluation of CNS activity in mice, **72:** 1082
—synthesis and action of mescaline analogues containing piperazine or homopiperazine rings, **72:** 304
Cobaltous chloride—induced hypothermia in mice, pretreatment with 5-hydroxytryptaminergic agents, **72:** 824
Cocaine—stability evaulation and bioanalysis, hydrolysis products, high-performance liquid chromatography, **72:** 258
Cochlear perilymph—aminoglycoside kinetics, **72:** 718
Coil→helix transition—of polyadenylic acid, induced by catecholamines, intercalative binding of epinephrine, norepinephrine, and isoproterenol, circular dichroism, **72:** 1450
Compaction, tablet—rebound phenomenon,

Fisher subsieve sizer, specific surface area of griseofulvin, **72:** 971
Compartmental modeling—kinetic interpretation of microparameters, **72:** 576
Competitive spectrophotometry—methyl orange, α-cyclodextrin–4-substituted phenol complexation, stability constants, comparison with potentiometric methods, **72:** 1333
Complex formation—α-cyclodextrin with amines, determination of the stability constants and binding sites, **72:** 388
—procainamide with hydroxide-containing compounds, **72:** 205
—salicylic acid and povidone, influence of polymer molecular weight, solvent dielectric constant, and ligand solubility, **72:** 1042
Compressed tablets—sustained release *in vitro*, oral administration, **72:** 378
Compression—viscoelastic behavior of tablets, conditions predictive of capping and lamination, **72:** 342
Concentration, steady-state—maintenance dose, prediction by single determination of concentration, two-compartment pharmacokinetics, lithium, **72:** 1262
Content uniformity—sodium levothyroxine, stability-indicating assay, dissolution, tablets, **72:** 1349
Contraceptives—norethindrone, sustained release, biodegradable steroid–polymer conjugate, *in vivo* release rate, **72:** 1323
Controlled-release delivery—zero-order, polymer matrices, micro- and macromolecules, **72:** 17
Controlled release of drugs—membrane-coated tablets, zero-order delivery, potassium chloride, potential use for all water-soluble drugs, **72:** 772
Copper aspirinate—gastric mucosal damage in the rat, protein-bound dye, histology, comparison with aspirin, **72:** 1457
Cornstarch—inter- *versus* intragranular, effect on tablet friability and *in vitro* dissolution, ticlopidine hydrochloride, **72:** 983
Corticosteroids—^{60}Co-irradiated, radiolytic degradation scheme, **72:** 30
Creatinine—assay in serum using HPLC, automated picrate method, modified picrate method, comparison of methods, **72:** 836
Croscarmellose sodium—estimation of the extent of drug–excipient interactions, **72:** 325
Crushing strength—effect on tablet friability and *in vitro* dissolution, **72:** 1097
Cyclazocine—interaction with the sympathetic nervous system, **72:** 151
Cyclic AMP—dibutyryl and monobutyryl derivatives, lung tissue and perfusate, separation by isocratic ion pair high-performance liquid chromatography, **72:** 1255
α-Cyclodextrin—complex formation with amines, determination of stability constants and binding sites, **72:** 388
—complex formation with 4-substituted phenols, stability constants, potentiometric and competitive spectrophotometric methods, **72:** 1333
β-Cyclodextrin–hydrocortisone—inclusion complexes, phase solubility analyses, ^{1}H-NMR, **72:** 1215
Cyclodextrins—complexation with digitalis glycosides, oral bioavailability, digoxin, digitoxin, methyl digoxin, **72:** 1338
Cyclohexanones—condensation of isatins, potential anticonvulsants, **72:** 318
Cyclophosphamide—synthesis of *N*-halogenated derivatives, NMR spectroscopic characterization, therapeutic efficacy in mouse cancers, **72:** 687
Cyproheptadine—GC determination in plasma and urine, **72:** 1069
Cyproheptadine hydrochloride—high-performance liquid chromatography, tablet formulations, **72:** 1212
Cytotoxicity—N^6-(Δ^2-isopentenyl)adenosine, potentiation by pentostatin, mouse L-1210 leukemia cells, **72:** 1225

D

Daphnane esters—isolation from *Dirca occidentalis* (Thymelaeaceae), identification, antileukemic and cytotoxic potential, **72:** 1285
Decomposition—alkoxyfuroic acids with microcrystalline cellulose, model, solid-state interactions, **72:** 1149
—hydrocortisone butyrate in semiaqueous and gel systems, kinetics, **72:** 776
Decomposition, photolytic—hydrochlorothiazide, irradiation, dechlorination, hydrolysis, **72:** 180
Decomposition, thermal—aspirin, formation of linear oligomeric salicylate esters, **72:** 322
Deconvolution—amount absorbed as a function of time for all common disposition models, amount of drug in peripheral compartments of mammillary model from measurement in central compartment, **72:** 838
Degradation—acidic solution, mitomycin, porfiromycin, pK_a determination, **72:** 549
—benzoyl peroxide, stability-indicating high-performance liquid chromatography in commercial formulations, **72:** 1398
—chlorthalidone, high-performance liquid chromatographic determination, comparison with the USP analysis, **72:** 924
—fenprostalene, prostaglandins, high-performance liquid chromatography, kinetics, ester hydrolysis, **72:** 946
—kinetics and mechanism, cefotaxime sodium in aqueous solution, **72:** 59
—pralidoxime chloride, concurrent high-performance liquid chromatographic determination, **72:** 751
—scheme for ^{60}Co-irradiated corticosteroids, **72:** 30
—ubidecarenone photostability, ordinary and elevated temperatures, exaggerated UV irradiation, **72:** 1198
Deliquescence—kinetics of water sorption, theoretical model with air atmosphere, application to potassium bromide, potassium iodide, and choline iodide, **72:** 1394
—sorption kinetics, alkali halides, choline halides, and sugars in a water vapor atmosphere, application of theoretical model, **72:** 1388
—water-soluble substances, sorption kinetics, heat transport control, theoretical model with water vapor atmosphere, **72:** 1381
Densitometric determination—solubility parameter and molal volume of compounds of medicinal relevance, **72:** 499
Deposition, tissue—polystyrene microspheres following intravenous administration, effect of nonionic surfactants, **72:** 1086
Desipramine—microbial *N*-demethylation of imipramine, enteric bacteria, **72:** 1288
—steady-state concentration in serum with imipramine administration, maintenance dose, single-point prediction method, pharmacokinetics, **72:** 1174
Desmethyldiazepam—diazepam, pharmacokinetics, single- and multiple-dose administrations, five-compartment open model, blood, CSF, **72:** 1318
Deuterium label—prochlorperazine synthesis, **72:** 702
Diazepam—desmethyldiazepam, pharmacokinetics, single- and multiple-dose administrations, five-compartment open model, blood, CSF, **72:** 1318
—*in vitro* detection of precipitation for injectable formulations, **72:** 1014
2,6-Dichlorophenol indophenol—titrimetric determination of ascorbic acid in commercial liquid diets, **72:** 126
1,1-Diethoxy-3-(1-naphthoxy)-2-propanol—synthesis, diethyl acetal of an aldehyde intermediate in propranolol metabolism, **72:** 863
***N,N*-Diethyl-*m*-toluamide**—formulation with acrylate polymer, evaluation for film hardness and elasticity in mosquito repellents, **72:** 169
Diffusion—phenol in a complexing agent, tetrahydrofuran, **72:** 12
Diffusional transport hypothesis—compartmental modeling, **72:** 576
Diffusivity—water in keratinous membranes, determination using concentration, fetal hog periderm, topical formulations, **72:** 1421
Diflunisal—high-performance liquid chromatographic analysis, plasma and urine, application to pharmacokinetic studies, **72:** 1403
Digoxin—complexation with cyclodextrins, oral bioavailability, digitoxin, methyl digoxin, **72:** 1338
—determination of content uniformity, comparison of high-performance liquid chromatography and radioimmunoassay, tablets, **72:** 505
—pharmacokinetics, effect of quinidine coadministration, guinea pigs, **72:** 1137
2,3-Dihydro-4*H*-1-benzopyran-4-one *O*-carbamoyloximes—synthesis, antisecretory activity, pylorus-ligated rats, **72:** 1361
Dihydrodigoxigenin—epimers, spectral analysis of the configuration and solution conformation, **72:** 271
7,8-Dihydroxy-9,10-epoxy-7,8,9,10-tetrahydrobenzene[*a*]pyrene—enantiomeric isomers, alkylation of dinucleoside dimers, transition-state geometry, **72:** 800
7,8-Dihydroxy-9,10-epoxy-7,8,9,10-tetrahydrobenzo[*a*]pyrene—enantiomeric isomers, alkylation of dinucleoside dimers, intercalation-complex geometry and energetics, **72:** 809
3-Dimethylamino-1-aryl-1-propanone hydrobromides—synthesis, activity against P-388 lymphocytic leukemia growth, effect on mitochondrial respiration, **72:** 887
3-Dimethylamino-2-dimethylaminomethyl-1-aryl-1-propanone dihydrobromides—synthesis, activity against P-388 lymphocytic leukemia growth, effect on mitochondrial respiration, **72:** 887
***N*-[(dimethylamino)methyl]benzamides**—4-substituted synthesis *via* Mannich–Einhorn reaction, **72:** 831
4-Dimethylaminopyridine—catalyses, cinnamoylation of *n*-propyl alcohol, **72:** 369
4-Dimethylaminopyridine catalysis—cinnamoylation of hydroxy compounds, kinetics, **72:** 366
Dimethyl sulfoxide—effect on the percutaneous absorption of flufenamic acid, synergism with nonionic surfactants, **72:** 857
—poly-L-methionine sulfoxide, biologically inert analogue with solubilizing potency, **72:** 665
1,2- and 1,3-Dinitroglycerin—rate of loss to red blood cells, **72:** 335
Dinoprost—transport through normal and diabetic rat hepatocytes, **72:** 296
Dinoprostone—effect on D-glucose and 2-deoxy-D-glucose uptake, normal and diabetic rat hepatocytes, insulin, **72:** 116
Dinucleoside dimers—alkylation by enantiomeric isomers of 7,8-dihydroxy-9,10-epoxy-7,8,9,10-tetrahydrobenzo[*a*]pyrene, transition-state geometry, **72:** 800, 809
Dioxane—extended Hildebrand solubility approach, *p*-hydroxybenzoic acid, water, **72:** 587
Diphenhydramine—determination in human plasma using GLC with nitrogen–phosphorus detection, application to single low-dose pharmacokinetic studies, **72:** 941
—interaction study with methaqualone in humans, elimination, metabolism, **72:** 176

3,3-Diphenyl-2-pyrrolidone—synthesis and anticonvulsant screening, derivatives, maximal electroshock-induced seizures, mice, **72:** 700
***Dirca occidentalis* (Thymelaeaceae)**—isolation of antileukemic and cytotoxic constituents, daphnane esters and lignans, identification, **72:** 1285
Direct plasma injection—analysis of theophylline by automated multidimensional high-performance liquid chromatography, **72:** 236
Disintegration—dissolution, mathematical model linking dissolution and disintegration, **72:** 208
—external scintigraphy in monitoring the behavior of pharmaceutical formulations *in vivo*, technique for acquiring high-resolution images of tablets, **72:** 130
Disopyramide—experimental evidence for concentration-dependent plasma protein binding effects on the apparent half-lives of restrictively cleared drugs, **72:** 461
Disposition—esterase activities in adult rabbit eyes, hydrolysis kinetics, **72:** 239
—reactivity of nitroglycerin and its metabolites with blood, **72:** 335
Dissociation constant determinations—dissolution rate method use, weak acids, 5,5-dimethyl-3-(α,α,α,4-tetrafluoro-*m*-tolyl)-hydantoin, **72:** 429
Dissolution—apparatus for gels, modification of the USP Dissolution Apparatus 2, **72:** 186
—automated sampling device, **72:** 976
—basket method, dissolution studies of hydrochlorothiazide tablets, **72:** 876
—basket method, prednisone, evaluation using different performance standards, **72:** 42
—determination of dissociation constants, weak acids, 5,5-dimethyl-3-(α,α,α,4-tetrafluoro-*m*-tolyl)hydantoin, **72:** 429
—disintegration, mathematical model linking dissolution and disintegration, **72:** 208
—evaluation of basket and paddle methods using different performance standards, prednisone, **72:** 42
—paddle method, basket method, spin-filter method, hydrochlorothiazide tablets, **72:** 876
—profiles for drug suspensions, prednisolone acetate, centrifugal elutriation, **72:** 190
—sodium levothyroxine, stability-indicating assay, content uniformity, tablets, **72:** 1349
—solid dispersions of testosterone with reduced presystemic inactivation, absorption efficiency, **72:** 708
—soluble drug substances from vinyl polymer matrices, **72:** 162
—systematic error associated with Apparatus 2 of the USP dissolution test using calibrator tablets, **72:** 910
—*in vitro*, effect of moisture and crushing strength, friability, **72:** 1097
—*in vitro*, polynomial mathematical model, effect of moisture and crushing strength, **72:** 1096
—*in vitro*, propylthiouracil, correlation with *in vivo* bioavailability, humans, **72:** 1409
—*in vitro*, ticlopidine hydrochloride, effect of inter- *versus* intragranular cornstarch, friability, **72:** 983
—*in vitro–in vivo* bioequivalence standard for phenytoin sodium capsules, **72:** 309
—*in vitro–in vivo* correlation for sodium phenytoin capsules, **72:** 306
Distribution—^{14}C-labeled poly(methyl methacrylate) nanoparticles, subcutaneous administration in rats, **72:** 1146
—tissue, [^{14}C]bretylium tosylate in the rat, plasma, renal excretion, **72:** 556
Disubstituted benzenes—*meta-* and *para-*, analysis and prediction of partition coefficient, substituent effects, **72:** 285
3,5-Disubstituted pyrazolesulfonylurea derivatives—synthesis, potential hypoglycemic agents, **72:** 999
Diurnal oscillation—effect on metabolism of carbamazepine in the rhesus monkey, **72:** 905
Dosage forms—freeze-drying of aqueous solutions, effect of process variables on sublimation rate, mechanisms for mass transfer through the dried solid, **72:** 635
—hydrocortisone butyrate, decomposition in semiaqueous and gel systems, kinetics, **72:** 776
—liposomal encapsulation, triamcinolone acetonide, pharmacokinetics, rabbits, **72:** 1412
—method of simultaneously analyzing aluminum and magnesium, californium-252 thermal neutron activation, **72:** 561
—ointment, sublingual, sustained-release, high-performance liquid chromatographic determination of nitroglycerin, **72:** 963
Dose, maintenance—steady-state concentration, prediction by single determination of concentration, two-compartment pharmacokinetics, lithium, **72:** 1262
Doxepin—high-performance thin-layer and liquid chromatographic methods, comparison, human plasma, desmethyldoxepin metabolite, **72:** 1165
Doxylamine—human plasma, determination by high-performance liquid chromatography, **72:** 961
Droplet size determination—improved microscopic techniques for emulsions, **72:** 313
Drug accumulation—estimation during chronic dosing, theoretical *versus* empirical calculations, **72:** 833
Drug delivery systems—albumin microcapsules, release rate of phenacetin, effect of albumin concentration, 1-vinyl-2-pyrrolidinone polymer content, capsule size, **72:** 1057
—design and preliminary evaluation of an oral osmotic delivery system containing indomethacin, **72:** 253
—ethylene-vinyl acetate copolymer matrix, inulin, release kinetics, *in vitro–in vivo* comparison, **72:** 1181
—implantable infusion pump, teratology studies, **72:** 742
—impregnated silicone polymer, pentostatin, **72:** 902
—local subcutaneous tissues *via* topical administration, literature survey, **72:** 1375
—membrane-coated tablets, controlled release, potassium chloride, **72:** 772
—polyacrylamide microparticles, blood elimination, kinetics, organ distribution, mice, **72:** 1415
—sustained release of norethindrone, biodegradable steroid–polymer conjugate, *in vivo* release rate, **72:** 1323
—zero-order controlled-release polymer matrices, micro- and macromolecules, **72:** 17
Drug–excipient interactions—estimation of the extent involving croscarmellose sodium, **72:** 325
Drug formulations—effect of additives and coatings on adherence, isolated porcine esophagus, **72:** 1034
Drug packaging—injectable solutions, single-dose syringes, and syringe cartridges, contamination by 2-mercaptobenzothiazole leached from rubber closures, **72:** 1302
Drug suspensions—dissolution profiles, prednisolone acetate, centrifugal elutriation, **72:** 190
Dynamic mechanical testing—determination of viscoelastic properties of anhydrous lanolin, **72:** 415
—viscoelastic parameter determination for anhydrous lanolin, energy of activation for mechanical transitions, **72:** 422

E

EDITORIALS
Adverse drug reactions—a continuing problem, **72:** 585
A deserved recognition, **72:** 329
Food and pharmacy—a close relationship, **72:** 723
Keeping current with technology, **72:** 1237
Maintaining excellence in pharmacy education, **72:** 103
Neither black nor white, but very gray, **72:** 1101
New era for nonprescription drugs, **72:** 1373
Restoring the oracle of science, **72:** 211
Science, objectivity, and judgment uncompromised, **72:** 843
Scientific manpower—supply *versus* demand, **72:** 981
Scientists respond to Tylenol crisis, **72:** 1
The "weak link" in new drug research, **72:** 463
Electron ionization mass spectra, in-beam—penicillin, β-lactam antibiotics, amoxicillin, ampicillin, **72:** 508
Elimination—^{14}C-labeled poly(methyl methacrylate) nanoparticles, subcutaneous administration in rats, **72:** 1146
—methaqualone–diphenhydramine interaction study in humans, metabolism, **72:** 176
—polyacrylamide microparticles from blood, kinetics, organ distribution, effect of surface characteristics, mice, **72:** 1415
—polyacryldextran microparticles in mice by the reticuloendothelial system following intravenous injection, **72:** 796
Emulsions—hexadecane with octoxynol 9, xylene with octoxynol 9, stability, effect of added electrolytes, **72:** 1427
—improved microscopic techniques for droplet size determination, **72:** 313
Enzyme inhibition—effect of protoberberine alkaloids on viral DNA polymerase, reaction kinetics, structure–activity relationships, **72:** 538
Ephedrine—oxazolidine derivatives, potential prodrugs for β-amino alcohols and carbonyl-containing compounds, **72:** 1294
—stereospecific radioimmunoassay using (*d*) and (*l*) antisera, **72:** 736
Equilibrium—alprazolam, reversible ring-opening reaction, **72:** 356
Equilibrium dialysis—measurement of low-level protein binding, elimination of artifactual error, multiple replicated controls, **72:** 918
—measurement of protein binding, effect of volume shifts, theoretical model, application to prednisolone in humans, **72:** 1442
—volume shift, unbound fraction of drug, **72:** 1368
Erythromycin stearate—bioavailability, tablet formulations, dissolution rate, high-performance liquid chromatography, **72:** 979
Esmolol—cardioselective β-adrenergic blocking agent, pharmacokinetic profile, **72:** 710
Esterase activities—adult rabbit eyes, disposition, hydrolysis kinetics, **72:** 239
Ester hydrolysis—fenprostalene degradation, high-performance liquid chromatography, kinetics, **72:** 946
Estrous cycle—effect of vaginal membrane permeability to vidarabine in mice, **72:** 674
Ethchlorvynol—NMR quantitative analysis, capsule dosage form, **72:** 1358
Ethionamide—carbothionamido group, determination using ammonia gas-sensing electrode, acid decomposition, **72:** 988
Ethylcellulose—effect with medium-chain triglyceride on the oral bioavailability of ceftizoxime in rats, dogs, and humans, **72:** 454
Ethylene–vinyl acetate copolymer—sustained release of inulin, release kinetics, *in vitro–in vivo* comparison, **72:** 1181
Ethylparaben—dissolution kinetics of a three-

component solid, phenacetin, salicylamide, **72:** 757
Etodolac—sensitive high-performance liquid chromatographic method for determination in serum, **72:** 275
Etofibrate—degradation products, plasmolysis, red blood cell partitioning, plasma protein binding, **72:** 1309
Etomidate—high-performance liquid chromatography, human plasma, infusion, hypnosis in total intravenous anesthesia, **72:** 1424
Excipients—effect on nitrazepam stability in binary powder mixtures, **72:** 1072
—estimation of the extent of drug–excipient interactions involving croscarmellose sodium, **72:** 325
Excretion, biliary—[^{14}C]temazepam and its metabolites in the rat, **72:** 311
Excretion, renal—dependence of renal clearance on urine flow, mathematical model, application, reabsorption, **72:** 154
—tissue distribution of [^{14}C]bretylium tosylate, rats, plasma, **72:** 556
Excretion, salivary—isosorbide dinitrate saliva concentrations for biopharmaceutical investigations, **72:** 496
Eyes, adult rabbits—esterase activities, disposition, hydrolysis kinetics, **72:** 239

F

Factorial designs—pharmaceutical stability studies, kinetic models, statistical analysis, **72:** 362
Fatty acids—hepatic extraction, **72:** 1230
Fazadinium—*rate of recovery, relationship to* plasma concentration, pharmacokinetics, **72:** 1369
Fenobam—^{1}H- and ^{13}C-NMR spectroscopic analysis, **72:** 189
Fenprostalene—degradation, prostaglandins, high-performance liquid chromatography, kinetics, ester hydrolysis, **72:** 946
First-pass metabolism—impact on pharmacokinetic parameters, use of simulation techniques, formation-rate-limited metabolism, **72:** 711
Flufenamic acid—percutaneous absorption, effect of nonionic surfactants and/or dimethyl sulfoxide, **72:** 857
Fluorescence—measurement of 1-anilino-8-naphthalenesulfonate uptake into isolated rat liver cells, effect of organic anions, comparison with filtration method, **72:** 871
Fluorescence spectrophotometry—comparison with UV for quantification of a potent myotonia inducer, **72:** 1221
1-Fluoro-2,4-dinitrobenzene—hexadecyltrimethylammonium bromide-catalyzed reaction with amines, kinetics, analytical application, **72:** 146
5-Fluorouracil—concentrations in rat plasma, bile, and parotid saliva as determined by high-performance liquid chromatography, protein binding, pharmacokinetics, **72:** 597
—simultaneous determination with tegafur rabbit serum, GLC using nitrogen-sensitive detection, **72:** 1162
Folinic acid—analysis by high-performance liquid chromatography, amperometric detection, human serum, **72:** 1306
Formation-rate-limited metabolism—pharmacokinetic parameters, use of simulation techniques, **72:** 711
Formulations—penicillin, nonisothermal kinetics using a microcomputer, a derivative approach to the prediction of stability, **72:** 668
Formulations, injectable—potential precipitation in aqueous media, *in vitro* detection using diazepam and alprazolam, **72:** 1014
Fosfomycin—preferred molecular conformation for biological activity, quantum mechanical calculations, **72:** 1011
Freeze-drying—methodology of rate measurements for aqueous solutions, influence of process variables, mechanisms of mass transfer in the dried solid, **72:** 635
Friability—effect of moisture and crushing strength, **72:** 1097
—effect of moisture and crushing strength, mathematical model, **72:** 1096
Furosemide—binding, human albumin, comparison of two methods of fluorescence quenching analysis, **72:** 542

G

GC—alternative method for analysis of chlorobutanol in ophthalmic ointments and aqueous solutions, reverse-phase high-performance liquid chromatography, **72:** 277
—carbinoxamine and hydrocodone in human serum, nitrogen-sensitive detection, **72:** 1342
—(−)-1-cyclopropylmethyl-4-(3-trifluoromethylthio-5*H*-dibenzo[*a*,*d*]cyclohepten-5-ylidene)piperidine (MK-160) in plasma and urine, **72:** 815
—cyproheptadine, determination in plasma and urine, **72:** 1069
—determination of ciramadol in plasma, analgesics, **72:** 85
—determination of hydrazine in pharmaceutics, hydralazine, isoniazid, **72:** 948
—determination of phendimetrazine, human plasma, serum, or urine, **72:** 519
—direct or combined with head-space analysis, quantitation of formaldehyde concentration in taurolidine, **72:** 705
—nitrogen–phosphorus detection, determination of diphenhydramine in human plasma, single-dose pharmacokinetic study, **72:** 941
—nitrogen-sensitive detection, tegafur and 5-fluorouracil, simultaneous determination *in* rabbit serum, **72:** 1162
—simultaneous determination of acetylsalicylic acid and salicylic acid in plasma, serum and whole blood, formation of trimethylsilyl derivatives, **72:** 1092
GC–MS—analysis, mannitol and sorbitol in plasma, **72:** 87
—(−)-α-isosparteine from *Lupinus argenteus* var. *stenophyllus*, sparteine isomer, **72:** 563
—quantitation of theophylline and metabolites in biological fluids, infants, **72:** 526
—selected-ion monitoring, determination of busulfan in human plasma, **72:** 1203
GC retention indices—correlation to molecular connectivity, polar and nonpolar stationary phases, topological and linear free energy parameters, **72:** 1327
Gentamicin—bilirubin-displacing effects of ampicillin, indomethacin, chlorpromazine, and parabens, *in vitro* and in newborn infants, **72:** 248
—pharmacokinetics in the dog, effect of concomitant administration of piperacillin, **72:** 894
—rectal absorption, effect of ionic strength and specificity, sodium salicylate adjuvant, **72:** 1134
Gentamicin sulfate—rectal absorption, effect of choline chloride and ouabain, **72:** 698
Glycerin—partially nitrated, high-performance liquid chromatographic assay for nitroglycerin, **72:** 194
Glyceryl esters—acetoacetic acid, adjuvant effects on rectal absorption of insulin and inulin, rabbits, **72:** 280
Granule strength—tablet compression, comparison with tensile strength, lactose, povidone, **72:** 530
Guaifenesin—simultaneous determination with phenylephrine hydrochloride and phenylpropanolamine hydrochloride, reverse-phase paired-ion high-performance liquid chromatography, **72:** 55
Guinea pigs—dosing and serial blood sampling without anesthesia, **72:** 975

H

Hairless mouse skin—penetration of prodrugs of 6-thiopurines, pivaloyloxymethyl derivatives, **72:** 372
Head-space analysis—capillary GC, quantitation of formaldehyde concentration in taurolidine, **72:** 705
Heparin—pharmacokinetics, concentration and anticoagulant effect, *in vivo* and *in vitro* factors, **72:** 1141
Hepatic drug clearance—saturation kinetics, sinusoidal perfusion model, venous equilibrium model, **72:** 1229
—sinusoidal perfusion model, venous equilibrium model, **72:** 1230
Hepatic drug clearance, intrinsic—role of drug protein binding and influence of free fatty acids, **72:** 1230
Hepatocytes—rat, normal and diabetic, effect of insulin, dinoprostone on D-glucose, 2-deoxy-D-glucose uptake, **72:** 116
—rat, normal and diabetic, transport of alprostadil and dinoprost, **72:** 296
3-*n*-Heptadecylcatechol—synthesis, acetate and alaninate esters, **72:** 792
Heterogeneity of organ extraction—intrahepatic shunts, **72:** 1229
Heterosulfamates—synthesis, classification by linear discriminant analysis, structure–taste relationship, **72:** 852
Hexadecane—emulsions with octoxynol 9, stability, effect of added electrolytes, **72:** 1427
Hexadecyltrimethylammonium bromide-catalyzed reaction—1-fluoro-2,4-dinitrobenzene with amines, kinetics, analytical application, **72:** 146
3a,4,5,6,7,7a-Hexahydro-3-(1-methyl-5-nitro-1*H*-imidazol-2-yl)-1,2-benzisoxazole—synthesis of *in vitro* oxygenated metabolites, characterization by NMR and mass spectrometry, biotransformations on the hexahydrobenzisoxazole ring, **72:** 782
Hexamidine isethionate—quantitative determination in pharmaceutical preparations, high-performance liquid chromatography, **72:** 1477
Hexiol—mannitol and sorbitol in plasma, GLC–mass fragmentographic analysis, **72:** 87
High-performance liquid chromatography—amperometric detection, folinic acid and other folates, human serum, **72:** 1306
—analysis for cisplatin in urine, solvent-generated anion exchange, column switching technique, **72:** 351
—analysis of diflunisal in plasma and urine, application to pharmacokinetic studies, **72:** 1403
—analysis of sustained-release preparations containing nitroglycerin, isosorbide dinitrate, or pentaerythritol tetranitrate, **72:** 124
—application of postcolumn ionization, analysis of butabarbital sodium elixir, **72:** 1089
—assay for partially nitrated glycerins in nitroglycerin, **72:** 194
—assay for salicylamide and metabolites in biological fluids, drug conjugate calibration curves in the absence of authentic standards, **72:** 612
—assay of methadone, phencyclidine ion-pair extraction of counterion with applications, **72:** 630
—automated multidimensional analysis of theophylline involving direct plasma injection, **72:** 236
—cocaine, benzoylecgonine, and benzoic acid in buffers in biological fluids, **72:** 258
—comparison with radioimmunoassay in determination of content uniformity of digoxin in tablets, **72:** 505

—concurrent determination of pralidoxime chloride and its decomposition products in aqueous solutions, comparison to USP procedure, **72:** 751
—creatinine assay in serum, comparison with two picrate methods, **72:** 836
—cyproheptadine hydrochloride in tablet formulations, **72:** 1212
—degradation of fenprostalene, kinetics, ester hydrolysis, **72:** 946
—determination and dose-dependent pharmacokinetic application of alizapride, new antiemetic compound, **72:** 71
—determination of azobenzene and hydrazobenzene in phenylbutazone and sulfinpyrazone products, **72:** 1223
—determination of benzalkonium chloride, ophthalmic systems, complex with methyl orange, **72:** 521
—determination of nitroglycerin in sublingual, sustained-release, and ointment dosage forms, **72:** 963
—determination of radiolytic degradation scheme and stability of antibiotics following irradiation, **72:** 23
—direct determination of avermectins in plasma at nanogram levels, isomerization by hydrolysis, **72:** 1447
—doxepin and desmethyldoxepin in human plasma, comparison with high-performance thin-layer chromatography, **72:** 1165
—electrochemical detection, subnanogram levels, chlorpromazine, human plasma, **72:** 1259
—erythromycin stearate tablet formulation, bioavailability, **72:** 979
—etomidate, human plasma, infusion, hypnosis in total intravenous anesthesia, **72:** 1424
—hydralazine, whole blood analysis, *p*-anisaldehyde hydrazone of hydralazine, **72:** 693
—ion pair, isocratic, cyclic AMP and its dibutyryl and monobutyryl derivatives, lung tissue and perfusate, **72:** 1255
—methylparaben in human urine, preterm infants, gentamicin formulations, **72:** 1039
—microbial metabolism studies on the major microbial and mammalian metabolite of primaquine, **72:** 92
—new method for assaying propantheline and its degradation product, xanthene-9-carboxylic acid, **72:** 96
—oral acetaminophen preparations, determination of absolute and relative bioavailability, **72:** 955
—oxazepam capsules and tablets, stability-indicating analysis, **72:** 1330
—pergolide and its sulfoxide and sulfone metabolites, following microbial transformation, **72:** 733
—phenylpropanolamine, determination in human serum and urine without prior derivatization, **72:** 1018
—preparations of ribonucleic acid inactivator(s) from cupric ion and hydroquinone before and after treatment with histidine, **72:** 300
—quantitation of aspirin and metabolites, urine and plasma, **72:** 1020
—quantitation of doxylamine in human plasma, **72:** 961
—quantitation of ketoconazole in biological fluids, humans, **72:** 1467
—quantitation of meperidine hydrochloride in pharmaceutical dosage forms, **72:** 695
—quantitative determination of hexamidine isethionate, pharmaceutical preparations, **72:** 1477
—reverse-phase, analysis of chlorobutanol in ophthalmic ointments and aqueous solutions, **72:** 277
—reverse-phase, determination of antimicrobial preservatives in pharmaceutical formulations, **72:** 221
—reverse-phase paired-ion, simultaneous determination of phenylephrine hydrochloride, phenylpropanolamine hydrochloride, and guaifenesin, **72:** 55
—sensitive method for the determination of etodolac in serum, **72:** 275
—simultaneous determination of acetaminophen, guaifenesin, pseudoephedrine, pholcodine, and paraben preservatives in cough mixture, **72:** 196
—simultaneous determination of cefsulodin and cefotiam in serum and bone marrow blood, **72:** 958
—simultaneous determination of iodochlorhydroxyquin and hydrocortisone, ointment and cream, **72:** 1036
—stability indicating, benzoyl peroxide and its degradation products, commercial formulations, comparison with iodometric procedures, **72:** 1398
—stability indicating, triamcinolone acetonide and its decomposition products, effect of pH, buffer concentration, and ionic strength, **72:** 1453
—stability-indicating assay, ophthalmic preparations, naphazoline, tetrahydrozoline, **72:** 1347
—stability of mezlocillin sodium, **72:** 1479
—thimerosal and its degradation products, aqueous solutions, effect of sodium chloride, **72:** 1406
—thioridazine metabolism, formation of two isomeric ring sulfoxides, determination in plasma, **72:** 622
—tiodazosin and levulinic acid from tablets, sequential assay, **72:** 1168
—vincristine sulfate, degradation products, **72:** 535
—warfarin in plasma, quantitation of the stereoisomers using the racemate, **72:** 921

Hildebrand solubility approach, extended—*p*-hydroxybenzoic acid in mixtures of dioxane and water, **72:** 587

Histidine—high-performance liquid chromatography of preparations of ribonucleic acid inactivator(s) from cupric ion and hydroquinone, **72:** 300

Homopiperazine rings—mescaline analogues, synthesis and action on the CNS, **72:** 304

Hormones—potent luteinizing hormone-releasing hormone analogue (leuprolide) in rats, vaginal absorption, enhancement with organic acids, **72:** 75

Human albumin—furosemide binding, comparison of two methods of fluorescence quenching analysis, **72:** 542

Hydralazine—GLC determination of hydrazine, **72:** 948
—hydrazine levels in formulations over a 2-year period, **72:** 965
—whole blood, derivatization, *p*-anisaldehyde hydrazones of hydralazine, analysis, high-performance liquid chromatography, **72:** 693

Hydration—percutaneous absorption, influence on *n*-alkalol permeation through rat skin, Swiss and hairless mice comparison, **72:** 79

Hydrazine—determination in hydralazine and isoniazid by GLC, **72:** 948
—levels in formulations of hydralazine, isoniazid, and phenelzine over a 2-year period, **72:** 965

Hydrazobenzene—determination in phenylbutazone and sulfinpyrazone products by high-performance liquid chromatography, **72:** 1223

Hydrochlorothiazide—dissolution studies, paddle method, basket method, spin filter method, **72:** 876
—photolytic decomposition, irradiation, dechlorination, hydrolysis, **72:** 180

Hydrocodone—GLC assay, nitrogen-sensitive detection, **72:** 1342

Hydrocortisone—dose-dependent bioavailability, saturable absorption kinetics, **72:** 577
—simultaneous determination with iodochlorhydroxyquin, ointment and cream, high-performance liquid chromatography, **72:** 1036
—solubility in organic and aqueous media, determination of regular solution behavior in apolar solvents, **72:** 409
—stability in aqueous buffers, stabilization by D-fructose, **72:** 1079

Hydrocortisone butyrate—decomposition in semiaqueous and gel systems, kinetics, **72:** 776

Hydrolysis—photolytic decomposition of hydrochlorothiazide, dechlorination, irradiation, **72:** 180

Hydrolysis, membrane—structural requirements, intestinal absorption of amino acid derivatives, rats, **72:** 943

Hydrolysis of aluminum tri-sec-butoxide—use of carbon dioxide-saturated water, formation of amorphous aluminum hydroxycarbonate gel, excellent properties, free of sodium and potassium, **72:** 769

Hydroquinone—high-performance liquid chromatography of preparations of ribonucleic acid inactivator(s) from cupric ion after treatment with histidine, **72:** 300

Hydroxide-containing compounds—complexation with procainamide, **72:** 205

Hydroxyapatite—pellets, demineralization and remineralization, effect of bulk solution activity product, **72:** 1252

***p*-Hydroxybenzoic acid**—extended Hildebrand solubility approach, water, **72:** 587

***erythro*-9-(2-Hydroxy-3-nonyl)-hypoxanthine**—immunomodulator, quantitation in human serum and urine by radioimmunoassay, **72:** 914

Hydroxypropylcellulose—viscosity grades, mixing ratio, contents, **72:** 378

α-Hydroxytriazolam—urinary excretion, use to measure triazolam absorption in mice, drug–diet mixtures, **72:** 1185

Hypnotic agents—etomidate, infusion, hypnosis in total intravenous anesthesia, high-performance liquid chromatography, human plasma, **72:** 1424

Hypoglycemic agents—potential, preparation, antidiabetic activity of 3,5-disubstituted pyrazolesulfonylurea derivatives, **72:** 999

Hypoglycemic agents—potential, preparation of new trisubstituted pyrazolesulfonylurea derivatives, **72:** 1004

Hypolipidemic agents—potential, *N*-substituted derivatives of phthalimide, structure–activity relationships, mice, **72:** 1344

Hypothermia—induction in mice with cobaltous chloride, effects of pretreatment with 5-hydroxytryptamingeric agents, **72:** 824

I

Imipramine—*N*-demethylation to desipramine, microbial transformation, enteric bacteria, **72:** 1288
—steady-state concentration of desipramine in serum, maintenance dose, single-point prediction method, pharmacokinetics, **72:** 1174

Immobilization—urokinase on agarose matrices, effect on spacer length, enzyme activity, **72:** 225

Immunoactivity—comparative study of bioactivity of sodium insulin, **72:** 692

Immunomodulators—*erythro*-9-(2-hydroxy-3-nonyl)-hypoxanthine, quantitation by radioimmunoassay, human serum and urine, **72:** 914

Inclusion complexes—β-cyclodextrin–hydrocortisone, phase solubility analyses, ^{1}H-NMR, **72:** 1215

Indomethacin—bilirubin-displacing effects of

ampicillin, chlorpromazine, gentamicin, and parabens, *in vitro* and in newborn infants, **72:** 248
—design and preliminary evaluation of an oral osmotic delivery system, zero-order drug delivery, **72:** 253
—kinetics of the hydrolysis in alkaline medium, **72:** 1075
—pretreatment, effect on sodium excretion, pharmacokinetics of bumetanide, dogs, **72:** 1298
Infusion pump—delivery of test drug in teratology studies, comparison to conventional techniques, **72:** 742
Injectable formulations—contamination by 2-mercaptobenzothiazole leached from rubber closures, single-dose syringes, syringe cartridges, **72:** 1302
Inorganic nitrite—presence in and generation from the nitrate esters isosorbide dinitrate, nitroglycerin, and pentaerythritol tetranitrate, simulated gastric conditions, Griess reaction, **72:** 1064
Inorganic sulfate—renal clearance in rats, effect of acetaminophen-induced depletion of endogenous sulfate, **72:** 213
Insulin—absorption and degradation at the subcutaneous injection site, stabilizing agents for the subcutaneous dosage form, **72:** 435
—adjuvant effects of glyceryl esters of acetoacetic acid on rectal absorption, rabbits, inulin, **72:** 280
—complexation with zinc *in vivo*, effect of phenformin determination by polarography, **72:** 565
—effect on D-glucose and 2-deoxy-D-glucose uptake, normal and diabetic rat hepatocytes, dinoprostone, **72:** 116
—minimizing aggregation, neutral solutions, lysine, solubility, **72:** 1472
—monolayer studies of interactions with lipids, **72:** 244
—prevention of self-association and surface adsorption, circular dichroism, **72:** 228
Intercalation—7,8-dihydroxy-9,10-epoxy-7,8,9,10-tetrahydrobenzo[*a*]pyrene into dinucleoside dimers, energetics, complex geometry, **72:** 809
Interfacial transfer—kinetics and thermodynamics, water–isopropyl myristate interface, methyl and ethyl nicotinates, **72:** 142
Intestinal microflora—role in rutin metabolism, *in vitro* analysis with rat intestinal contents, GLC–MS detection, **72:** 1155
Inulin—adjuvant effects of glyceryl esters of acetoacetic acid on rectal absorption, rabbits, insulin, **72:** 280
—sustained release using polymeric matrices, release kinetics, *in vitro–in vivo* comparison, **72:** 1181
Iodochlorhydroxyquin—simultaneous determination with hydrocortisone, ointment and cream, high-performance liquid chromatography, **72:** 1036
Ionization—postcolumn, application in high-performance liquid chromatographic analysis of butabarbital sodium elixir, **72:** 1089
Irradiation—cobalt-60, alternate method for antibiotic sterilization, **72:** 23
—radiolytic degradation of corticosteroids, **72:** 30
IR spectroscopy—analysis of *N*-substituted nortropane spirohydantoins, **72:** 881
Isatins—condensation with cyclohexanone and other cyclic ketones, potential anticonvulsants, **72:** 318
Isomerization—avermectins in plasma, hydrolysis, direct determination at nanogram levels, high-performance liquid chromatography, **72:** 1447
Isoniazid—GLC, determination of hydrazine, **72:** 948
—hydrazine levels in formulations over a 2-year period, **72:** 965
Isopromethazine hydrochloride—synthesis, **72:** 568
1,2-*O*-Isopropylidene-3-*O*-3′-(*N*′,*N*′-dimethylamino-*n*-propyl)-D-glucofuranose—pharmacokinetics, intravenous and oral doses, dogs, **72:** 1045
Isosorbide dinitrate—high-performance liquid chromatographic analysis of sustained-release preparation, **72:** 124
—metabolism in isolated perfused rabbit lung, kinetic profiles, **72:** 785
—presence and generation of inorganic nitrite, simulated gastric conditions, Griess reaction, **72:** 1064
—saliva–plasma ratios following oral administration of a sustained-release preparation, **72:** 496
(−)-α-Isosparteine—*Lupinus argenteus* var. *stenophyllus*, GLC–mass spectrometry, sparteine isomer, **72:** 563

J

JOURNALS
Cancer Investigation, **72:** 722
Clinical Research Practices and Drug Regulatory Affairs, **72:** 722
International Journal of Quantum Chemistry, **72:** 584, 722
Journal of Bioelectricity, **72:** 584
Journal of Carbohydrate Chemistry, **72:** 1236
Journal of Environmental Sciences and Health, Part C: Environmental Carcinogenesis Reviews, **72:** 1372
Journal of Industrial Irradiation Technology, **72:** 1372
Journal of Pharmaceutical and Biomedical Analysis, **72:** 1372
Journal of Social and Administrative Pharmacy, **72:** 1372
Journal of Toxicology: Toxin Reviews, **72:** 722
Journal of Toxicology. Vol. 1 No. 1: Cutaneous and Ocular Toxicology, **72:** 1236
Pharmazeutische Zeitung Scientific Edition, **72:** 1372

K

Kanamycin—quantitation in pharmaceutical dosage forms using the Hantzsch reaction, amikacin, neomycin, tobramycin, **72:** 1470
Ketocaine—potential antitumor agents, synthesis and antitumor activity of two analogues, **72:** 814
Ketoconazole—quantitation in biological fluids, high-performance liquid chromatography, humans, **72:** 1467
Kinetics—absorption, Wagner–Nelson equations, **72:** 578
—absorption and steady-state plasma concentrations of theophylline following therapeutic doses of two sustained-release preparations, **72:** 158
—acylation of albumin with *N-trans*-cinnamoylimidazoles at the tyrosine-411 residue binding site, **72:** 385
—alprazolam, reversible ring-opening reaction, **72:** 356
—1-anilino-8-naphthalenesulfonate uptake into isolated rat liver cells, fluorescence enhancement, effect of organic anions, **72:** 871
—aspirin hydrolysis in media, human blood and plasma, stability, **72:** 1024
—aspirin metabolism, rats, effect of water deprivation, **72:** 1030
—cinnamoylation of hydroxy compounds in acetonitrile, **72:** 366
—decomposition of hydrocortisone butyrate in semiaqueous and gel systems, **72:** 776
—hexadecyltrimethylammonium bromide-catalyzed reaction of 1-fluoro-2,4-dinitrobenzene with amines, analytical application, **72:** 146
—hydrolysis of indomethacin, **72:** 1075
—inhibition of lidocaine and quinidine clearances in the rat by cimetidine, **72:** 826
—interfacial transfer thermodynamics, water–isopropyl myristate interface, methyl and ethyl nicotinates, **72:** 142
—mechanism of degradation of cefotaxime sodium in aqueous solution, **72:** 59
—moisture sorption, alkali halides, choline halides, and sugars in a water vapor atmosphere, application of theoretical model, **72:** 1388
—moisture sorption by water-soluble substances, theoretical model with air atmosphere, application to potassium bromide, potassium iodide, and choline iodide, **72:** 1394
—moisture sorption of water-soluble substances, heat transport control, theoretical model with water vapor atmosphere, **72:** 1381
—nitroglycerin loss to red blood cells, **72:** 335
—reaction of trinitrobenzenesulfonate with human serum albumin, **72:** 432
—release of potassium chloride from hydroxypropyl methylcellulose matrices, effect of entrapped air, **72:** 1189
—tautomerization, mitomycin, porfiromycin, **72:** 553
—theophylline, blood–brain barrier transfer in dogs, **72:** 951
Kinetics, hydrolysis—esterase activities in adult rabbit eyes, disposition, **72:** 239
Kinetics, nonisothermal—derivative approach to the prediction of the stability of penicillin formulations using a microcomputer, **72:** 668

L

β-Lactam antibiotics—protein binding and metabolism, rats, pharmacokinetics, physiologically based model, **72:** 1239
Lanolin, anhydrous—viscoelastic parameter determination, temperature–frequency equivalence, **72:** 422
—viscoelastic properties as determined by dynamic mechanical testing, **72:** 415
Lead absorption—reduction *in vivo* in rats by administration of phosphate-containing products, **72:** 345
Leuprolide—effect of estrous cycle on vaginal absorption of hydrophilic model compounds, **72:** 173
—vaginal absorption, potent luteinizing hormone-releasing hormone analogue in rats, mechanism of absorption enhancement with organic acids, **72:** 75
Levamisole—effects of breed, season, temperature, and solvents on permeability, frozen and reconstituted cattle skin, **72:** 218
Levulinic acid—tiodazosin tablets, sequential high-performance liquid chromatographic assay, **72:** 1168
Lidocaine—inhibition of clearance in the rat by cimetidine, kinetics, **72:** 826
Lignans—isolation from *Dirca occidentalis* (Thymelaeaceae), identification, antileukemic and cytotoxic potential, **72:** 1285
Linear discriminant analysis—classification of heterosulfamates, molecular connectivity correlations, **72:** 852
Lipids—monolayer studies of interactions with insulin, **72:** 244
Liposomes—effects of calcium and neomycin on phase behavior of phospholipid bilayers, **72:** 1465
Liquid membrane phenomenon—reserpine action, biogenic amines, neurotransmitter amino acids, surface activity, **72:** 599

Literature survey—pharmacokinetic modeling, **72:** 1103
Loo–Reigelman equation—drug absorption, **72:** 838
Lupinus argenteus* var. *stenophyllus—(−)-α-isosparteine, GLC–mass spectrometry, sparteine isomer, **72:** 563
Luteinizing hormone-releasing hormone analogue—effect of estrous cycle on vaginal absorption of hydrophilic model compounds, **72:** 173
Lysine—minimizing aggregation of neutral insulin solutions, solubility, **72:** 1472

M

Macrophages, cultured—acrylic microspheres, *in vivo*, morphological studies on mice, polyacrylamide, liver, spleen, marrow, **72:** 658
Magnesium—method of analysis in pharmaceutical dosage forms, californium-252 thermal neutron activation, **72:** 561
Mannitol—GLC–mass fragmentographic analysis in plasma, **72:** 87
Mass fragmentography—analysis, tulobuterol, serum, **72:** 570
Matrices—hydroxypropyl methylcellulose, release of potassium chloride, effect of entrapped air, kinetics, **72:** 1189
—vinyl polymer, dissolution of a soluble drug substance, **72:** 162
Mean absorption time—determination by mean hepatic transit time, pharmacokinetics, **72:** 1365
Mean hepatic transit time—determination of mean absorption time, pharmacokinetics, **72:** 1365
Medium extraction ratio drug—*in vivo* evaluation of Michaelis–Menten constant, application to cinromide in the rhesus monkey, **72:** 1352
Membranes—model, correlation between psychotropic potency of cannabinoids and their effect on the ^{1}H-NMR spectra, **72:** 458
Meperidine hydrochloride—quantitation in pharmaceutical dosage forms by high-performance liquid chromatography, **72:** 695
2-Mercaptobenzothiazole—contaminant of injectable solutions, leached from rubber closures, single-dose syringes, syringe cartridges, **72:** 1302
Mescaline analogues—synthesis and action on the CNS, containing piperazine or homopiperazine rings, **72:** 304
Metabolism—aspirin, effect of water deprivation in rats, kinetics, **72:** 1030
—biliary excretion of [^{14}C]temazepam in the rat, **72:** 311
—carbamazepine in the rhesus monkey, autoinduction rate constants, effect of diurnal oscillations, **72:** 905
—isosorbide dinitrate and metabolites in isolated perfused rabbit lung, kinetic profiles, **72:** 785
—β-lactam antibiotics in rats, pharmacokinetics, physiologically based model, **72:** 1239
—methaqualone–diphenhydramine interaction study in humans, elimination, **72:** 176
—polyacryldextran microparticles in mice following intravenous injection, **72:** 796
—propranolol, synthesis of the diethyl acetal of an aldehyde intermediate, 1,1-diethoxy-3-(1-naphthoxy)-2-propanol, **72:** 863
—propranolol in the human, elimination, metabolic pathways, **72:** 725
Metabolism, pulmonary—carbamazepine in the rat, steady-state determination of drug elimination *via* the lungs, **72:** 860
Metabolites—of 3a,4,5,6,7,7a-hexahydro-3-(1-methyl-5-nitro-1*H*-imidazol-2-yl)-1,2-benzisoxazole, characterization by NMR and mass spectrometry, **72:** 782
—aspirin, quantitation in urine and plasma, high-performance liquid chromatography, **72:** 1020
—bouvardin, microbial transformation to *O*-desmethylbouvardin and bouvardin catechol, *Streptomyces rutgersensis*, *Aspergillus ochraceous*, **72:** 1291
—1,2-*O*-isopropylidene-3-*O*-3′-(*N*′,*N*′-dimethylamino-*n*-propyl)-D-glucofuranose, multiple extraction, radiochemical analysis in urine, dogs, **72:** 1045
—isosorbide dinitrate, kinetic profiles in isolated perfused rabbit lung, **72:** 785
—propranolol in humans, dose-dependent elimination, metabolic pathways, **72:** 725
—rutin, analysis in rat urine, role of intestinal microflora, **72:** 1155
—salicylamide, determination in biological fluids, high-performance liquid chromatography, **72:** 612
Metal-ion catalysis—hydrolysis and aminolysis of benzylpenicillin, mechanism, ternary complex formation, **72:** 331
Methadone—high-performance liquid chromatographic assay of phencyclidine and metabolites by postcolumn ion-pair extraction, on-line fluorescent detection of counterion with applications, **72:** 630
Methanol—permeability through burn-traumatized skin, **72:** 397
Methaqualone—interaction study with diphenhydramine in humans, elimination, metabolism, **72:** 176
2-(2-Methyl-2-aminovinyl)-1-methylquinolinium iodides—synthesis, antileukemic activity in mice, **72:** 1356
***N*-Methylimidazole catalysis**—cinnamoylation of hydroxy compounds, kinetics, **72:** 366
—cinnamoylation of *n*-propyl alcohol, **72:** 369
Methyl nicotinate—noninvasive assessments of percutaneous absorption, laser Doppler velocimetry, photopulse plethysmography, pharmacokinetics, **72:** 1077
Methylparaben—determination in human urine, preterm infants, high-performance liquid chromatography, **72:** 1039
2-Methyl-3-phenylcarbamoyl-2,3-diazabicyclo[2.2.1]heptanes—synthesis and anticonvulsant activity, **72:** 94
Methylprednisolone—synthesis of 21-hemiester homologues, influence of premicellar and micellar association on reactivity, **72:** 448
Mezlocillin sodium—stability, determined by high-performance liquid chromatography, **72:** 1479
Micellar—influence on the reactivity of methylprednisolone 21-hemiesters, **72:** 448
Michaelis–Menten constant—*in vivo* evaluation, medium extraction ratio drug, application to cinromide in the rhesus monkey, **72:** 1352
Michaelis–Menten equation—mathematical solution, **72:** 1483
Michael-type reactions—tenulin with nucleophilic reagents, biologically active sesquiterpene lactones, **72:** 1474
Microbial transformation—bouvardin to *O*-desmethylbouvardin and bouvardin catechol, *Streptomyces rutgersensis*, *Aspergillus ochraceous*, **72:** 1291
—imipramine, *N*-demethylation to desipramine, enteric bacteria, **72:** 1288
Microcrystalline cellulose—solid-state interactions with alkoxyfuroic acids, decomposition model, **72:** 1149
Microlenin—sesquiterpene lactone, inhibition of DNA and protein syntheses, inhibition of Ehrlich ascites carcinoma growth, **72:** 1008
Microparticles—polyacrylamide, blood elimination kinetics, organ distribution, effect of surface characteristics, mice, **72:** 1415
—polyacryldextran, *in vitro* degradation, *in vivo* metabolism and elimination in mice, **72:** 796
Microspheres, polystyrene—effect of nonionic surfactants on blood clearance and deposition, intravenous administration, **72:** 1086
Mitomycin—degradation, acidic solution, rate constant determination, **72:** 549
—prototropic properties, pK_a determinations, tautomerization kinetics, **72:** 553
Models, mathematical—method for predicting fill weight variation when packing powders using vacuum/purge fillers, **72:** 119
Models, pharmacokinetic—nonlinear, sulmazole, in the dog, **72:** 105
Molal volume—densitometric determination of solubility parameter of compounds of medicinal relevance, **72:** 499
Molecular connectivity—correlation to GC retention indices, polar and nonpolar stationary phases, topological and linear free energy parameters, **72:** 1327
—valence delta-values, definition, applications to structure–activity relationships, comparison with molecular refractivity, **72:** 1170
Molecular refractivity—comparison with molecular connectivity valence delta-values, structure–activity relationships, **72:** 1170
Molecular surface area—solubility in binary solvent systems, **72:** 292
Monolayer studies—insulin–lipid interactions, **72:** 244
Morphine—radioimmunoassay specificity before and after extraction of plasma and cerebrospinal fluid, **72:** 27
Morphine sulfate—use of implantable infusion pumps for teratology studies, comparison with conventional techniques, **72:** 742

N

Naphazoline—high-performance liquid chromatographic stability-indicating assay, ophthalmic preparations, **72:** 1347
Naphthalene—prediction of solubility in binary solvent systems based on molecular surface areas, **72:** 292
Nebulization—^{99m}Tc-labeled sodium cromolyn, device comparison, **72:** 580
Neomycin—effect on phase behavior of phospholipid bilayers, liposomes, calcium, **72:** 1465
—quantitation in pharmaceutical dosage forms using the Hantzsch reaction, amikacin, kanamycin, tobramycin, **72:** 1470
Neuroleptic agents—binding of phenothiazines to a common binding site of α_1-acid glycoprotein, orosomucoid, **72:** 202
—phenothiazine derivatives, influence of environment and substituents on the stability of the radical cations, **72:** 50
N^6-(Δ^2-Isopentenyl)adenosine—antineoplastic agent, potentiation by pentostatin against L-1210 leukemia cells, **72:** 902
—potentiation by pentostatin, cytotoxicity, mouse L-1210 leukemia cells, **72:** 1225
Nitrazepam—effect of excipients on stability in binary powder mixtures, **72:** 1072
***p*-Nitroaniline**—determination of the *N*-acetylation reaction, topological indices, **72:** 934
Nitroglycerin—high-performance liquid chromatographic analysis of sustained-release preparation, **72:** 124
—high-performance liquid chromatographic assay for partially nitrated glycerins, **72:** 194
—high-performance liquid chromatographic determination in sublingual, sustained-release, and ointment dosage forms, **72:** 963
—percutaneous absorption pharmacokinetics in the rhesus monkey, comparison of intravenous and topical administration bioavailability, **72:** 745
—permeation of, comparison of marketed transdermal delivery systems, **72:** 968

—presence and generation of inorganic nitrite, simulated gastric conditions, Griess reaction, **72:** 1064
—rate of loss to red blood cells, **72:** 335
NMR spectroscopy—analysis of *N*-substituted nortropane spirohydantoins, **72:** 881
—analysis of taurolidine, **72:** 705
—^{1}H and ^{13}C, analysis of fenobam, **72:** 189
—isonicotinyl hydrazone of norethindrone, characterization, synthesis, **72:** 1084
—quantitative analysis, ethchlorvynol, capsule dosage form, **72:** 1358
Nonionic surfactants—effect on blood clearance and deposition of polystyrene microspheres, intravenous administration, **72:** 1086
NONLIN program—use for fitting discontinuous absorption profiles, **72:** 138
Norethindrone—isonicotinyl hydrazone, synthesis, characterization by NMR, **72:** 1084
—sustained release, biodegradable steroid–polymer conjugate, *in vivo* release rate, **72:** 1323
Nutrient depletion—effect of sensitivity of *Pseudomonas cepacia* to antimicrobial agents, **72:** 1363

O

Octanol—determination of the solubility of nonelectrolytes and weak electrolytes, partition coefficients with water, **72:** 866
One-compartment pharmacokinetic model—nonparametric method, comparison with standard nonlinear regression procedure, estimation of parameter, **72:** 1218
Ophthalmic drugs—β-blocking agents, corneal permeability, rabbits, barrier contributions, **72:** 1272
—β-blocking agents, corneal permeability, rabbits, physicochemical factors, **72:** 1266
Ophthalmic ointments—aqueous solutions, chlorobutanol, analysis by reverse-phase high-performance liquid chromatography, **72:** 277
Ophthalmic solutions—sulfacetamide, antimicrobial activity, effects of EDTA, steroids, preservatives, **72:** 1401
—thimerosal decomposition in aqueous solutions, effect of sodium chloride, high-performance liquid chromatography, **72:** 1406
Organ-imaging agents—potential, chylomicron remnants as carriers for hepatographic agents, **72:** 898
Organ perfusion—pharmacokinetics, importance of volume replenishment, **72:** 970
Orosomucoid—binding of several phenothiazine neuroleptics to a common binding site of α_1-acid glycoprotein, **72:** 202
Osmotic pump—oral, design and preliminary evaluation, indomethacin, **72:** 253
Ouabain—effect on the rectal absorption of gentamicin sulfate, **72:** 698
Oxalate ion—permeation through a cellulose membrane with salicylate ion, protein effect on permeation flux, **72:** 425
Oxazepam—analysis, high-performance liquid chromatography, stability, tablets, capsules, **72:** 1330
Oxazolidines—potential prodrugs for β-amino alcohols and carbonyl-containing compounds, ephedrine, **72:** 1294

P

Papaverine—*in vivo–in vitro* correlations using a commercial dissolution simulator, **72:** 681
Parabens—bilirubin-displacing effects of ampicillin, indomethacin, chlorpromazine, and gentamicin, *in vitro* and in newborn infants, **72:** 248
—simultaneous determination of acetaminophen, guaifenesin, pseudoephedrine, and pholcodine in preservatives in cough mixture by high-performance liquid chromatography, **72:** 196
Partition coefficient—nonelectrolytes and weak electrolytes in octanol-water, use with melting point to determine solubility, **72:** 866
—octanol–water, analysis and prediction, *meta-* and *para*-disubstituted benzenes in terms of substituent effects, **72:** 285
—transport of alprostadil and dinoprost through normal and diabetic rat hepatocytes, **72:** 296
pK_a determination—aziridine nitrogens, mitomycin, porfiromycin, **72:** 549
Penicillin—in-beam ionization mass spectra, β-lactam antibiotics, amoxicillin, ampicillin, **72:** 508
—nonisothermal kinetics using a microcomputer, a derivative approach to the prediction of stability in formulations, **72:** 668
3-*n*-Pentadecylcatechol—synthesis, acetate and alaninate esters, **72:** 792
Pentaerythritol tetranitrate—high-performance liquid chromatographic analysis of sustained-release preparation, **72:** 124
—presence and generation of inorganic nitrite, simulated gastric conditions, Griess reaction, **72:** 1064
Pentostatin—potentiation of N^6-(Δ^2-isopentenyl)adenosine, cytotoxicity, mouse L-1210 leukemia cells, **72:** 1225
—use to potentiate antineoplastic activity of N^6-(Δ^2-isopentenyl)adenosine against L-1210 leukemia cells, polymeric delivery system, **72:** 902
Percutaneous absorption—topical nitroglycerin, determination of first-pass effect, **72:** 745
Pergolide—sulfoxide and sulfone metabolites, biotransformation in 58 microorganisms, identification by preparative-scale TLC and high-performance liquid chromatography, **72:** 733
Permeability—acebutolol, timolol, bufuralol, excised rabbit corneas, pharmacokinetics, *in vitro–in vivo* correlations, **72:** 1279
—β-blocking agents, excised rabbit corneas, barrier contributions, **72:** 1272
—β-blocking agents, excised rabbit corneas, physicochemical factors, **72:** 1266
—frozen and reconstituted cattle skin, effects of breed, season, temperature, and solvents, levamisole, **72:** 218
—hydration and percutaneous absorption, influence on *n*-alkanol through rat skin, Swiss and hairless mice comparison, **72:** 79
—phenol and methanol, through burn-traumatized skin, **72:** 397
—topically applied formulations, determination of diffusivity using concentration, keratinous membranes, **72:** 1421
—transport of alprostadil and dinoprost through normal and diabetic rat hepatocytes, **72:** 296
—vaginal membrane to vidarabine, determination of coefficients, effect of the estrous cycle, **72:** 674
Permeation, skin—phenol, baseline studies with hairless mice, effects of animal age, skin hydration, skin stripping, dermis isolation, and concentration, **72:** 391
Peroxides—role in surfactant-induced hemolysis, cetomacrogol 1000, hydroxyl radical participation, **72:** 1461
Pharmaceutical dosage forms—quality control limits, product variability, **72:** 405
—quantitation of meperidine hydrochloride by high-performance liquid chromatography, **72:** 695
Pharmaceutical gels—dissolution apparatus, modification of the USP Dissolution Apparatus 2, **72:** 186
Pharmaceutical powders—method for predicting fill weight variation when packing powders using vacuum/purge fillers, **72:** 119
Pharmacokinetic analysis—compartmental modeling, **72:** 576
Pharmacokinetic application—dose-dependent, alizapride, new antiemetic compound, high-performance liquid chromatographic determination, **72:** 71
Pharmacokinetic modeling—physiologically based, literature survey, **72:** 1103
Pharmacokinetic parameters—simulation techniques for first-pass and formation-rate-limited metabolism studies, **72:** 711
Pharmacokinetic profile—cardioselective β-adrenergic blocking agent, methyl 3-[4-(2-hydroxy-3-(isopropylamino)propoxy]phenylpropionate hydrochloride, **72:** 710
Pharmacokinetics—*N*-acetylprocainamide in rats after oral and intravenous administrations, age-related changes, **72:** 789
—amrinone after an intravenous dose, described by an open two-compartment body model, **72:** 817
—area under response-time curve, model-independent estimation, intergroup comparisons, **72:** 995
—bromophenol blue, rat plasma, urine, and bile, biliary excretion, **72:** 1127
—bumetanide, sodium excretion, pharmacokinetics in the dog, effect of indomethacin pretreatment, **72:** 1298
—chemotherapeutic agent, 5-fluorouracil in rats, concentrations in plasma, bile, and parotid saliva, **72:** 597
—chlorzoxazone, analysis in human plasma and urine, concomitant administration with acetaminophen, **72:** 991
—cinromide, 3-bromocinnamamide, primate model, **72:** 493
—computation of model-independent parameters, multiple dosing, **72:** 978
—diazepam, desmethyldiazepam, single- and multiple-dose administrations, five-compartment open model, blood, CSF, **72:** 1318
—diflunisal, high-performance liquid chromatographic analysis, plasma and urine, **72:** 1403
—digoxin in the guinea pig, effect of quinidine coadministration, **72:** 1137
—diphenhydramine in the human, detection after a single dose using GLC with nitrogen–phosphorus detection, **72:** 941
—experimental evidence for concentration-dependent plasma protein binding effects on the apparent half-lives of restrictively cleared drugs, **72:** 461
—fazadinium, rate of recovery, relationship to plasma concentration, **72:** 1369
—fraction unbound in interstitial fluid, relationship between binding in interstitial and vascular space, **72:** 834
—heparin, concentration and anticoagulant effect, *in vivo* and *in vitro* factors, **72:** 1141
—intravenous administration, half-lives, systemic absorption of Δ^9-tetrahydrocannabinol after ophthalmic administration, rabbits, **72:** 136
—1,2-*O*-isopropylidene-3-*O*-3′-(*N*′,*N*′-dimethylamino-*n*-propyl)-D-glucofuranose and metabolites, dogs, intravenous and oral doses, **72:** 1045
—isosorbide dinitrate saliva concentrations for biopharmaceutical investigations, **72:** 496
—β-lactam antibiotics, protein binding and metabolism in rats, physiologically based model, **72:** 1239
—liposome-encapsulated triamcinolone acetonide, rabbits, **72:** 1412
—low-flux peripheral compartment, **72:** 718
—mean hepatic transit time, mean absorption time, mean residence time, **72:** 1365
—nitroglycerin in the rhesus monkey, comparison of intravenous and topical administration bioavailability, **72:** 745

—nonlinear, model-independent method, use of simulated data, **72:** 1098
—nonlinear, sulmazole, in the dog, **72:** 105
—one-compartment open model, nonlinear regression analysis, absorption rate constants, elimination rate constants, **72:** 574
—organ perfusion studies, importance of volume replenishment, **72:** 970
—percutaneous absorption of methyl nicotinate in humans, noninvasive assessments by laser Doppler velocimetry and photopulse plethysmography, **72:** 1077
—piperacillin and gentamicin in the dog, effect of concomitant administration, **72:** 894
—procainamide metabolism, storage effect of blood samples, *N*-acetylprocainamide, **72:** 572
—rate and extent of acetaminophen absorption in rabbits with and without aluminum hydroxide administration, **72:** 828
—serial blood sampling by chronic cannulation, rat jugular vein, **72:** 1027
—single-point prediction method for desired steady-state concentration, maintenance dose, drug–metabolite pairs, **72:** 1174
—thiopental isomer in humans, comparison with thiopental, **72:** 937
—two-compartment, maintenance dose for steady-state concentration, prediction by single determination of concentration, lithium, **72:** 1262

Pharmacological activity—conformational study of two polymorphs of spiperone, possible consequences of interpretation, **72:** 232

Phase behavior—effects of calcium and neomycin on phospholipid bilayers, liposomes, **72:** 1465

Phase changes—crystals, anhydrous to hydrate, caffeine, theophylline, solubility studies, **72:** 837

Phase solubility analyses—β-cyclodextrin–hydrocortisone, ^{1}H-NMR, **72:** 1215

Phenacetin—albumin microcapsules, release rate, controlling factors, **72:** 1057
—dissolution kinetics of a three-component solid, ethylparaben, salicylamide, **72:** 757

Phencyclidine—high-performance liquid chromatographic assay of methadone and metabolites by postcolumn ion-pair extraction, on-line fluorescent detection of counterion with applications, **72:** 630

Phendimetrazine—GLC determination, human plasma, serum, or urine, **72:** 519

Phenelzine—hydrazine levels in formulations over a 2-year period, **72:** 965

Phenformin—effect on insulin–zinc complexes, determination by polarography, **72:** 565

Phenobarbital—*in vitro* adsorption onto activated charcoal, desorption, binding, **72:** 82

Phenols—complex formation with α-cyclodextrin, stability constants, potentiometric and competitive spectrophotometric methods, **72:** 1333
—diffusion in a complexing agent, tetrahydrofuran, **72:** 12
—effects of animal age, skin hydration, skin stripping, dermis isolation, and concentration on skin permeation, baseline studies on hairless mice, **72:** 391
—partitioning between water and organic solvents, phospholipid vesicles, thermodynamics, **72:** 443
—permeability through burn-traumatized skin, **72:** 397

Phenothiazines—derivatives, influence of environment and substituents on the stability of the radical cation, **72:** 50
—neuroleptics, binding to a common binding site of α_1-acid glycoprotein, orosomucoid, **72:** 202

Phenylephrine hydrochloride—simultaneous determination with phenylpropanolamine hydrochloride and guaifenesin, reverse-phase paired-ion high-performance liquid chromatography, **72:** 55

Phenylpropanolamine—determination by high-performance liquid chromatography without prior derivatization, human serum and urine, **72:** 1018

Phenylpropanolamine hydrochloride—simultaneous determination with phenylephrine hydrochloride and guaifenesin, reverse-phase paired-ion high-performance liquid chromatography, **72:** 55

4-Phenylsemicarbazides—synthesis and anticonvulsant activity, **72:** 1213

Phenytoin—low-melting prodrugs, alternative oral delivery modes, model for high-melting sparingly water-soluble drugs, **72:** 400
—*in vitro–in vivo* bioequivalence standard for phenytoin sodium capsules, dissolution, **72:** 309
—*in vitro–in vivo* correlation for sodium phenytoin capsules, dissolution, **72:** 306
—*in vivo–in vitro* correlations using a commercial dissolution simulator, **72:** 681

Phosphate—lowering of blood lead levels in rats after oral administration of lead acetate or lead-based paint, **72:** 345

Phosphate-protective groups—biologically reversible, acyloxymethyl groups, **72:** 324

Phosphatidylcholine—model membrane, correlation between the psychotropic potency of cannabinoids and their effect on the ^{1}H-NMR spectra, **72:** 458

Phosphoenolpyruvate—preferred molecular conformation for biological activity, quantum mechanical calculations, **72:** 1011

Phospholipid vesicles—partitioning of *p*-substituted phenols, water and organic solvents, thermodynamics, **72:** 443

Phosphorescence—determination of propranolol, tablets and injections, **72:** 559

Photolytic degradation—promethazine hydrochloride, thermal degradation, stability-indicating GLC assay, **72:** 546

Photostability—solid-state ubidecarenone, ordinary and elevated temperatures, exaggerated UV irradiation, activation energies, **72:** 1198

pH-stat titration—correlation between the *in vitro* test and *in vivo* acid neutralization, amorphous aluminum hydroxycarbonate, fiber optic Doppler anemometer analysis, dissolution data, **72:** 973

Phthalimide—analogues, antihyperlipidemic activity, cholestrol and triglyceride reduction, **72:** 845
—*N*-substituted derivatives, synthesis, hypolipidemic activity, mice, structure–activity relationships, **72:** 1344

Picrotoxin—lactone analogue synthesis, CNS activity, **72:** 1131

Piperacillin—pharmacokinetics in the dog, effect of concomitant administration of gentamicin, **72:** 894

Piperazine rings—mescaline analogues, synthesis and action on the CNS, **72:** 304

Pivaloyloxymethyl derivatives—prodrugs of 6-thiopurines, penetration through hairless mouse skin, **72:** 372

Plasma protein binding—concentration dependent, effects on the apparent half-lives of restrictively cleared drugs, **72:** 461
—etofibrate, clofibrate, degradation products, **72:** 1309
—role of free fatty acids, **72:** 1230

Plasma sulfate concentrations—effect of pregnancy in humans, **72:** 715

Plasmolysis—etofibrate, clofibrate, degradation products, **72:** 1309

Podophyliotoxin—esters, synthesis, antileukemic activity in mice, **72:** 1158

Polarography—determination of effect of phenformin on insulin–zinc complexes, **72:** 565

Polyacrylamide—acrylic microspheres, *in vivo*, morphological studies on mice and cultured macrophages, liver, spleen, marrow, **72:** 658

Polyacryldextran—microparticles, *in vitro* degradation, *in vivo* metabolism and elimination in mice, **72:** 796

Polyadenylic acid—coil→helix transition, intercalative binding of epinephrine, norepinephrine, and isoproterenol, circular dichroism, **72:** 1450

Polymers—*N*,*N*-diethyl-*m*-toluamide formulations, evaluation for film hardness and elasticity in mosquito repellents, **72:** 169
—matrices, zero-order controlled-release, micro- and macromolecules, **72:** 17
—vinyl polymer matrices, dissolution of a soluble drug substance, **72:** 162

Poly-L-methionine sulfoxide—biologically inert analogue of dimethyl sulfoxide with solubilizing potency, **72:** 665

Poly(methyl methacrylate)—^{14}C-labeled nanoparticles, distribution and elimination in rats, subcutaneous administration, **72:** 1146

Polymorphism—cimetidine crystals, X-ray structural studies, physicochemical properties, **72:** 1436

Polymorphs—spiperone, conformational study, possible consequences on interpretation of pharmacological activity, **72:** 232

Porfiromycin—degradation, acidic solution, rate constant determination, **72:** 549
—prototropic properties, pK_a determinations, tautomerization kinetics, **72:** 553

Potassium chloride—adherence to isolated porcine esophagus, effect of tablet shape, formulation, and coatings, **72:** 1034
—release from hydroxypropyl methylcellulose matrices, effect of entrapped air, kinetics, **72:** 1189

Povidone—complex formation with salicylic acid, influence of molecular weight, solvent dielectric constant, and ligand solubility, **72:** 1042

Pralidoxime chloride—decomposition products in aqueous solutions, concurrent high-performance liquid chromatographic determination, **72:** 751

Prednisolone—protein binding as determined by equilibrium dialysis, effect of volume shifts, application of theoretical model, humans, **72:** 1442

Prednisolone acetate—dissolution profiles for drug suspensions, centrifugal elutriation, **72:** 190

Prednisone—dissolution, USP Apparatus 2, effect of dissolved air in medium, **72:** 1061
—evaluation of basket and paddle dissolution methods using different performance standards, **72:** 42

Preformulation studies—vincristine sulfate, degradation products high-performance liquid chromatography, **72:** 535

Premicelles—influence on the reactivity of methylprednisolone 21-hemiesters, **72:** 448

Preparations, pharmaceutical—quantitative determination of hexamidine isethionate by high-performance liquid chromatography, **72:** 1477

Preservatives—methylparaben, determination in human urine, preterm infants, high-performance liquid chromatography, **72:** 1039

Preservatives, antimicrobial—determination in pharmaceutical formulations using reverse-phase liquid chromatography, **72:** 221

Presystemic inactivation—reduced, solid dispersions of testosterone, absorption efficiency, **72:** 708

Primaquine—microbial studies on the major microbial and mammalian metabolite, high-performance liquid chromatography, **72:** 92

Procainamide—complexation with hydroxide-containing compounds, **72:** 205

—pharmacokinetics, storage effect of blood samples, *N*-acetylprocainamide, **72:** 572
Prochlorperazine—deuterium-labeled synthesis, **72:** 702
Prodrugs—alternative oral delivery modes, model for high-melting sparingly water-soluble drugs, phenytoin, **72:** 400
—potential, oxazolidine derivatives, for β-amino alcohols and carbonyl-containing compounds, ephedrine, **72:** 1294
—6-thiopurines, soft-alkylated derivatives of 6-mercaptopurine, enhanced delivery through the skin, pivaloyloxymethyl derivatives, **72:** 372
Product variability—pharmaceutical dosage forms, quality control limits, **72:** 405
Promethazine hydrochloride—spectrophotometric analysis, color complex with bromcresol green, various pharmaceutical formulations, **72:** 704
—synthesis of isopromethazine, **72:** 568
—thermal and photolytic degradation studies, stability-indicating GLC assay, **72:** 546
Promethazine isomer—synthesis, **72:** 568
Propantheline—new method of high-performance liquid chromatographic assay, degradation product, xanthene-9-carboxylic acid, **72:** 96
Propicillin—effects of surfactants on GI absorption, **72:** 651
Propranolol—formation of metabolites, dose-dependent elimination in humans, metabolic pathways, **72:** 725
—metabolite synthesis, 1,1-diethoxy-3-(1-naphthoxy)-2-propanol, **72:** 863
—room temperature phosphorescence determination, tablets and injections, **72:** 559
Propylthiouracil—human plasma levels *in vivo*, bioavailability, correlation with *in vitro* dissolution, **72:** 1409
Prostaglandins—transport through normal and diabetic rat hepatocytes, alprostadil and dinoprost, **72:** 296
Protein binding—cocaine and its hydrolysis products, benzoylecgonine and benzoic acid, stability evaluation and bioanalysis, high-performance liquid chromatography, **72:** 258
—determined by equilibrium dialysis, effect of volume shifts, theoretical model, application to prednisolone in humans, **72:** 1442
—difficulties in applying the Scatchard model, new mathematical tools, application to salicylates, **72:** 35
—equilibrium dialysis, effect of volume shift, **72:** 1368
—low levels measured by equilibrium dialysis, use of multiple replicated controls to eliminate artifactual error, correction for concentration-dependent binding, **72:** 918
—plasma, changes after blood collection from pregnant women, **72:** 716
Protein synthesis—effects of microlenin, Ehrlich ascites carcinoma growth, **72:** 1008
—inhibition by quassinoids, P-388 lymphocytic leukemia cells, **72:** 626
Prothionamide—carbothionamido group, determination using ammonia gas-sensing electrode, acid decomposition, **72:** 988
Protirelin—buccal absorption, stimulation of thyrotropin and prolactin, use as a diagnostic tool, **72:** 1481
Protoberberine alkaloids—inhibition of reverse transcriptase activity, reaction kinetics, structure–activity relationships, **72:** 538
Prototropic properties—mitomycin, porfiromycin, alkaline medium, kinetics of tautomerization, **72:** 553
Pseudoephedrine—simultaneous determination of acetaminophen, guaifenesin, pholcodine, and paraben preservatives in cough mixture by high-performance liquid chromatography, **72:** 196
Pseudomonas cepacia—effect of nutrient depletion on sensitivity to antimicrobial agents, **72:** 1363
Pyrabital—direct preparation of solid particulates of aminopyrine–barbital complex from droplets by a spray-drying technique, **72:** 514
Pyrazolesulfonylurea derivatives—preparation, potential hypoglycemic agents, **72:** 1004
Pyrilamine—antihistamine, chemistry, pharmacology, metabolism, toxicology, mutagenicity, teratogenicity, carcinogenicity, literature survey, **72:** 3
2-Pyrrolidnones—synthesis of substituted analogues, hypolipidemic activity in mice, **72:** 812

Q

Quality control limits—pharmaceutical dosage forms, product variability, **72:** 405
Quinidine—effect on the distribution and elimination of digoxin, guinea pigs, **72:** 1137
—inhibition of clearance in the rat by cimetidine, kinetics, **72:** 826

R

Radical cations—influence of environment and substituents on stability, phenothiazine derivatives, **72:** 50
Radioimmunoassay—*d*- and *l*-ephedrine, stereospecific, **72:** 736
—cibenzoline, a new antiarrhythmic agent, human plasma, **72:** 100
—comparison with high-performance liquid chromatography in determination of content uniformity of digoxin tablets, **72:** 505
—*erythro*-9-(2-hydroxy-3-nonyl)-hypoxanthine, quantitation in human serum and urine, **72:** 914
—morphine, specificity before and after extraction of plasma and cerebrospinal fluid, **72:** 27
Radiometric method—*in vitro* assay for acetylcholinesterase inhibitors, **72:** 90
Radionuclides—^{99m}Tc-labeled tablets, external scintigraphy in monitoring the behavior of pharmaceutical formulations *in vivo*, technique for acquiring high-resolution images of tablets, **72:** 130
Rat—vascular access, collection of body fluids, literature survey, **72:** 465
Reabsorption—dependence of renal clearance on urine flow, mathematical model, application, **72:** 154
Rectal absorption—gentamicin sulfate, effect of chloride and ouabain, **72:** 698
Red blood cell partitioning—etofibrate, clofibrate, degradation products, **72:** 1309
Releasing hormone analogue—luteinizing hormone, effect of estrous cycle on vaginal absorption of hydrophilic model compounds, **72:** 173
Remineralization—demineralized bovine tooth enamel, hydroxyapatite pellets, effect of bulk solution activity product, **72:** 1252
Renal clearance—inorganic sulfate in rats, effect of acetaminophen-induced depletion of endogenous sulfate, **72:** 213
Repellents, mosquito—film hardness and elasticity evaluation for *N,N*-diethyl-*m*-toluamide–acrylate polymer formulations, **72:** 169
Reserpine—liquid membrane phenomenon, biogenic amines, neurotransmitter amino acids, surface activity, **72:** 599
Reverse permeation—salicylate ion with oxalate ion, through a cellulose membrane, protein effect on permeation flux, **72:** 425
Reverse transcriptase—effect of protoberberine alkaloids, reaction kinetics, structure–activity relationships, **72:** 538
Riboflavin—antacid effects on GI absorption, **72:** 121
—molecular interactions with salicylic acid derivatives, NMR and absorption spectroscopy in nonpolar solvents, association constant determinations for hydrogen-bonded dimers, **72:** 592
Rutin—metabolites in rat urine, GLC–MS analysis, role of intestinal microflora, **72:** 1155

S

Saccharin—analogues, antihyperlipidemic activity, cholesterol and triglyceride reduction, **72:** 1192
Salicylamide—determination in biological fluids, high-performance liquid chromatography, **72:** 612
—dissolution kinetics of a three-component solid, benzoic acid, salicylic acid, **72:** 765
—dissolution kinetics of a three-component solid, ethylparaben, phenacetin, **72:** 757
Salicylate esters—thermal decomposition of aspirin, formation of linear oligomeric salicylate esters, **72:** 322
Salicylate ion—permeation through a cellulose membrane, concentration by oxalate ion, protein effect on permeation flux, **72:** 425
Salicylates—application of Scatchard model, difficulties in application to ligand binding to proteins, new mathematical tools, **72:** 35
—aspirin and metabolites, quantitation in urine and plasma, high-performance liquid chromatography, **72:** 1020
—molecular interactions with riboflavin, NMR and absorption spectroscopy in nonpolar solvents, association constant determinations for hydrogen-bonded dimers, **72:** 592
Salicylic acid—complex formation with povidone, influence of polymer molecular weight, solvent dielectric constant, and solubility, **72:** 1042
—dissolution kinetics of a three-component solid, benzoic acid, salicylamide, **72:** 765
Salivary levels—reverse-phase high-performance liquid chromatography, **72:** 378
Scatchard model—difficulties in application to ligand binding to proteins, new mathematical tools, application to salicylates, **72:** 35
Scintigraphy—external, monitoring the behavior of pharmaceutical formulations *in vivo*, technique for acquiring high-resolution images of tablets, **72:** 130
—noninvasive method of study, aerosol dispersion, horse respiratory tract, **72:** 580
Sedatives—oxazepam, high-performance liquid chromatographic analysis, tablets, capsules, stability indicating, **72:** 1330
Self-association—insulin, prevention of surface adsorption, **72:** 228
Sensitizers, skin—allergenic properties of naturally occurring cannabinoids, guinea pig maximization test, **72:** 954
Sesquiterpene lactones—tenulin, Michael-type reactions, nucleophilic reagents, **72:** 1474
Silicone rubber—effect of different water-soluble additives on water sorption, **72:** 316
Skin, cattle—frozen and reconstituted, effects of breed, season, temperature, and solvents on permeability to levamisole, **72:** 218
Skin, hairless mouse—permeation of nitroglycerin, transdermal delivery systems, **72:** 968
Sodium cromolyn—technetium-99m labeling, nebulization, scintigraphy in the horse, **72:** 580
Sodium insulin—comparative study of immunoactivity and bioactivity, **72:** 692
Sodium levothyroxine—stability-indicating assay, dissolution, content uniformity, tablets, **72:** 1349
Sodium salicylate—adjuvant, rectal absorption of gentamicin, effect of ionic strength and specificity, **72:** 1134
Solid particulate—direct preparation of amino-

pyrine–barbital complex (pyrabital) from droplets by spray-drying technique, **72:** 514
Solubility—binary solvent systems, extension of the nearly ideal binary solvent model to include solute–solvent complexation, **72:** 929
—binary solvent systems, predictive expressions based on molecular surface areas, **72:** 292
—densitometric determination of parameters, molal volume of compounds of medicinal relevance, **72:** 499
—hydrocortisone in apolar solvents, regular solution behavior of large polyfunctional solutes, **72:** 409
—minimizing aggregation of neutral insulin solutions, lysine, **72:** 1472
—nonelectrolytes and weak electrolytes in octanol, determination using melting points and partition coefficients, **72:** 866
Solubility parameters—*p*-hydroxybenzoic acid in mixtures of dioxane and water, **72:** 587
Solubilization—cholesterol in fatty acid salt solutions, bile salt solutions, potential method for gallstone dissolution, **72:** 338
Solubilization potency—poly-L-sulfoxide, biologically inert analogue of dimethyl sulfoxide, **72:** 665
Solute–solvent interactions—determination of equilibrium constants from solubility measurements, comparison of the stoichiometric and nearly ideal binary solvent models, **72:** 929
Solution theory—behavior determination for hydrocortisone solubilities in apolar solvents, **72:** 409
Solvent systems—binary, anthracene solubility determinations in benzene mixtures using the nearly ideal binary solvent model, **72:** 929
Sorbitol—GLC–mass fragmentographic analysis in plasma, **72:** 87
Sorption—kinetics, alkali halides, choline halides, and sugars in a water vapor atmosphere, application of theoretical model, **72:** 1388
—moisture, water-soluble substances, kinetics, heat transport control, theoretical model with water vapor atmosphere, **72:** 1381
—moisture, water-soluble substances, kinetics, theoretical model with air atmosphere, application to potassium bromide, potassium iodide, and choline iodide, **72:** 1394
—water, effect of different water-soluble additives on water sorption into silicone rubber, **72:** 316
Specific surface area—Fisher subsieve sizer, rebound phenomenon observed during compaction, griseofulvin, **72:** 971
Spiperone—polymorphs, conformational study, possible consequences on interpretation of pharmacological activity, **72:** 232
Spline functions—use with jackknife technique to provide area under response–time curve estimations, model independent, **72:** 995
Spray patterns—of inhalation aerosols, characterized by TLC and photography, **72:** 380
Stability—aspirin in media, human blood and plasma, hydrolysis kinetics, **72:** 1024
—assay of sodium levothyroxine in tablets, dissolution, content uniformity, **72:** 1349
—hexadecane and xylene emulsions with octoxynol 9, effect of added electrolytes, **72:** 1427
—hydrocortisone, stability in aqueous buffers, stabilization by D-fructose, **72:** 1079
—mezlocillin sodium, determined by high-performance liquid chromatography, **72:** 1479
—nonisothermal kinetics using a microcomputer, a derivative approach to the prediction, penicillin formulations, **72:** 668
—pharmaceutical, factorial designs, kinetic models, statistical analysis, **72:** 362
—prediction and bioanalysis of cocaine and benzoylecgonine in plasma and buffers, high-performance liquid chromatography, **72:** 258
—triamcinolone in solutions, effect of pH, buffer concentrations, and ionic strength, high-performance liquid chromatography, **72:** 1453
Stabilizing agent—insulin, subcutaneous dosage forms, use of the peptide benzyloxycarbonyl-Gly-Pro-Leu-Gly, **72:** 435
Statistical moment analysis—estimation of absorption and dissolution rates, effects of the sampling schedule, importance of the estimate of the terminal elimination rate constant (β), **72:** 713
Stereoisomers—warfarin, quantitation in plasma using the racemate, high-performance liquid chromatography, **72:** 921
Sterilization—use of ^{60}Co-irradiation as an alternate method, **72:** 23
Steroids—methylprednisolone, synthesis of 21-hemiester homologues, influence of premicellar and micellar association on reactivity, **72:** 448
—thiourea and thiazoline derivatives, synthesis, *in vitro* effect on bovine pancreatic ribonuclease activity, **72:** 1205
Structure—polymorphic crystalline forms of cimetidine, X-ray studies, physicochemical properties, **72:** 1436
Structure–activity relationships—analysis and prediction of partition coefficient of *meta*- and *para*-disubstituted benzenes in terms of substituent effects, **72:** 285
—applications of molecular connectivity valence delta-values, comparison with molecular refractivity, **72:** 1170
—brusatol and related quassinoids, anti-inflammatory potential, **72:** 1282
—fosfomycin and phosphoenolpyruvate, molecular level mechanism of action, preferred conformation, **72:** 1011
—protoberberine alkaloids, *in vitro* inhibition of reverse transcriptase activity, **72:** 538
—pyrilamine, chemistry, pharmacology, metabolism, toxicology, mutagenicity, teratogenicity, carcinogenicity, literature survey, **72:** 3
—*N*-substituted phthalimide derivatives, hypolipidemic activity, mice, **72:** 1344
Subcutaneous injection—absorption and degradation of insulin, use of benzyloxycarbonyl-Gly-Pro-Leu-Gly peptide for stabilization, **72:** 435
Sublimation rate—measurement for frozen aqueous solutions, microbalance technique, as a function of process variables, **72:** 635
***N*-Substituted azacyclopentanones**—synthesis, structure–activity relationships, evaluation as tick repellents, **72:** 1354
***N*-Substituted azacyclopentenones**—synthesis, structure–activity relationships, evaluation as tick repellents, **72:** 1354
***N*-Substituted nortropane spirohydantoins**—synthesis, structural studies, using IR, NMR, and X-ray crystallography, **72:** 881
Succinimide—2-pyrrolidinone congeners, synthesis of substituted analogues, hypolipidemic activity in mice, **72:** 812
Sulfacetamide—ophthalmic solutions, antimicrobial activity, effects of EDTA, steroids, preservatives, **72:** 1401
Sulfadimethoxine—binding to CF-IV-1 α-globulin at therapeutic doses, equilibrium dialysis with multiple replicated controls, **72:** 918
Sulfamethizole—determination of renal clearance using a computer analysis, **72:** 440
Sulfanilamide—determination of renal clearance using a computer analysis, **72:** 440
—synthesis of sulfanilamido-naphthoquinones as potential antituberculous agents, **72:** 68
Sulfate concentration—effect of pregnancy in humans, **72:** 715
Sulfisoxazole—*in vivo–in vitro* correlations using a commercial dissolution simulator, **72:** 681
Sulmazole—nonlinear pharmacokinetics in the dog, **72:** 105
Surfactants—cetomacrogol 1000-induced hemolysis, peroxidation, hydroxyl radical participation, **72:** 1461
—effects on GI absorption of β-lactam antibiotics in rats, **72:** 651
Surfactants, nonionic—effect on the percutaneous absorption of flufenamic acid, synergism with dimethyl sulfoxide, **72:** 857
Sustained-release delivery—zero-order controlled-release polymer matrices, micro- and macromolecules, **72:** 17
Sustained-release formulations—high-performance liquid chromatographic analysis of preparations containing nitroglycerin, isosorbide dinitrate, or pentaerythritol tetranitrate, **72:** 124
—saliva–plasma ratios of isosorbide dinitrate following oral administration, **72:** 496
Sweetners, sulfamate—structure–taste relationship, classification by linear discriminant analysis, **72:** 852
Swelling behavior—effect of different water-soluble additives on water sorption into silicone rubber, **72:** 316
Sympathetic nervous system—interaction with cyclazocine, **72:** 151
Synthesis—2,3-dihydro-4*H*-1-benzopyran-4-one *O*-carbamoyloxime series, gastric antisecretory activity, pylorus-ligated rats, **72:** 1361
—*N*-halogenated derivatives of cyclophosphamide, NMR spectroscopic characterizations, therapeutic efficacy in mouse cancers, **72:** 687
—isonicotinyl hydrazone of norethindrone, characterization by NMR, **72:** 1084
—2-(2-methyl-2-aminovinyl)-1-methylquinolinium iodides, antileukemic activity in mice, **72:** 1356
—3-*n*-pentadecyl- and 3-*n*-heptadecylcatechols, acetate and alaninate esters, **72:** 792
—podophyllotoxin esters, antileukemic activity in mice, **72:** 1158
—steroidal thiourea and thiazoline derivatives, *in vitro* effect on bovine pancreatic ribonuclease activity, **72:** 1205
—warfarin and its phenolic metabolites, new high-yield method, **72:** 830

T

Tablet coatings—effect on adherence, isolated porcine esophagus, potassium chloride, **72:** 1034
Tablet-coating suspensions—titanium dioxide, pan abrasion from abrasive components, **72:** 1485
Tablet compression—comparison of granule and tensile strength, lactose, povidone, **72:** 530
Tablet formulation—external scintigraphy in monitoring the behavior *in vivo*, technique for acquiring high-resolution images of tablets, **72:** 130
—viscoelastic behavior of compacts during stress unloading and postcompression, parameters predictive of capping and lamination, **72:** 342
Taurocholate—removal by liver, albumin, **72:** 1232, 1233
Taurolidine—NMR spectral analysis, headspace analysis–GC methods for the determination of formaldehyde, **72:** 705
Tegafur—simultaneous determination with 5-fluorouracil, rabbit serum, GLC using nitrogen-sensitive detection, **72:** 1162
Temazepam—^{14}C-labeled, biliary excretion metabolites in the rat, **72:** 311

Tensile strength—tablet compression, comparison with granule strength, lactose, povidone, **72:** 530
Tenulin—sesquiterpene lactone, Michael-type reactions, nucleophilic reagents, **72:** 1474
Testosterone—solid dispersions with reduced presystemic inactivation, dissolution, absorption efficiency, **72:** 708
Δ^9-Tetrahydrocannabinol—systemic absorption after ophthalmic administration, rabbits, **72:** 136
Tetrahydrozoline—high-performance liquid chromatographic stability-indicating assay, **72:** 1347
Theophylline—absorption kinetics and steady-state plasma concentrations following therapeutic doses of two sustained-release preparations, **72:** 158
—analysis by automated multidimensional high-performance liquid chromatography involving direct plasma injection, **72:** 236
—blood–brain barrier transfer in dogs, kinetics, **72:** 951
—crystalline phase changes, anhydrous to hydrates solubility studies, **72:** 837
—GC–mass spectrometric quantitation, biological fluids, infants, **72:** 526
—hydroxypropylcellulose tablets, **72:** 378
Theophylline release rate—Zn(II)–aminophylline complex, X-ray diffraction, potential for use in oral preparations, **72:** 348
Thermal degradation—promethazine hydrochloride, photolytic degradation, stability-indicating GLC assay, **72:** 546
Thermodynamics—interfacial transfer kinetics, water–isopropyl myristate interface, methyl and ethyl nicotinates, **72:** 142
—*p*-substituted phenols, partitioning, water and organic solvents, phospholipid vesicles, **72:** 443
Thiadiazine derivatives—potential broad spectrum, design, synthesis, antiparasitic screening of certain 3,6-disubstituted-(7*H*)-*s*-triazolo[3,4-*b*][1,3,4]thiadiazine derivatives, **72:** 45
Thimerosal—degradation products, aqueous solutions, effect of sodium chloride, high-performance liquid chromatography, **72:** 1406
Thiopental—isomer determination in serum by high-performance liquid chromatography, pharmacokinetics in humans, anesthetic potency in mice, **72:** 937
Thioridazine—isomeric ring sulfoxides, metabolism, high-performance liquid chromatography with fluorometric detection, determination in plasma, **72:** 622
—oxidation to ring sulfoxides, separation of the diastereoisomeric pairs of the ring sulfoxides by crystallization of the nitric acid salts, ^{13}C-NMR analysis of thioridazine ring sulfoxides, **72:** 617
Thyroid—determination in pharmaceutical preparations, potentiometric titration of iodide, **72:** 822
Thyroid and sodium levothyroxine analyses—assay by potentiometric titration, content uniformity analyses, **72:** 822
Thyrotropin and prolactin stimulation—buccal absorption of protirelin, use as a diagnostic tool, **72:** 1481
Tick repellents—potential, *N*-substituted azacyclopentanones and azacyclopentenones, synthesis, **72:** 1354
Ticlopidine hydrochloride—tablet friability, *in vitro* dissolution, effect of inter- *versus* intragranular cornstarch, **72:** 983
Timolol—corneal permeability in rabbits, pharmacokinetics, *in vitro–in vivo* correlations, **72:** 1279
Tiodazosin—tablets, high-performance liquid chromatographic assay, sequential with levulinic acid, **72:** 1168
Titanium dioxide—coating suspensions, polymorphic modifications, **72:** 1485
Titrimetric determination—ascorbic acid determination with 2,6-dichlorophenol indophenol in commercial liquid diets, **72:** 126
TLC—characterization of spray patterns for inhalation aerosols, **72:** 380
—high-performance, doxepin and desmethyldoxepin in human plasma, comparison with high-performance liquid chromatography, **72:** 1165
—preparative-scale, pergolide and its sulfoxide and sulfone metabolites, following microbial transformation, **72:** 733
Tobramycin—quantitation in pharmaceutical dosage forms using the Hantzsch reaction, amikacin, kanamycin, neomycin, **72:** 1470
Tooth enamel—bovine, demineralization and remineralization, effect of bulk solution activity product, **72:** 1252
Topical administration—drug delivery to local subcutaneous tissues, literature survey, **72:** 1375
Topical formulations—determination of water diffusivity using concentration, keratinous membranes, fetal hog periderm, **72:** 1421
Topological indices—information-theoretic, rate determination of the *N*-acetylation reaction, comparison with physicochemical constants and molecular connectivity indices, substituted anilines, **72:** 934
Topology—correlation of GC retention indices and molecular connectivity, linear free energy parameters, polar and nonpolar stationary phases, **72:** 1327
Transdermal delivery—nitroglycerin, hairless mouse skin, comparison of three marketed systems, **72:** 968
Transition-state geometry—alkylation of dinucleoside dimers by enantiomeric isomers of 7,8-dihydroxy-9,10-epoxy-7,8,9,10-tetrahydrobenzo[*a*]pyrene, intercalation, **72:** 800
Triamcinolone acetonide—decomposition in solution, effect of pH, buffer concentration, and ionic strength, high-performance liquid chromatography, **72:** 1453
—liposomal encapsulation, pharmacokinetics, rabbits, **72:** 1412
Triazolam—absorption from drug–diet mixtures by mice, determination by metabolite excretion in urine, α-hydroxytriazolam, **72:** 1185
Triglyceride—antihyperlipidemic effect of phthalimide analogues, **72:** 845
—antihyperlipidemic effect of saccharin analogues, **72:** 1192
Triglyceride, medium-chain—effect with ethylcellulose on the oral bioavailability of ceftizoxime in rats, dogs, and humans, **72:** 454
Trinitrobenzenesulfonate—kinetics of reaction with human serum albumin, **72:** 432
Trisulfapyrimidine—*in vivo–in vitro* correlations, UV method for the measurement of the dissolution of trisulfapyrimidine suspensions, **72:** 1071
Tulobuterol—serum, extraction, derivatization, mass fragmentography, **72:** 570
Tumor-imaging agents—potential, chylomicron remnants as carriers for hepatographic agents, **72:** 898

U

Ubidecarenone—photostability, ordinary and elevated temperatures, exaggerated UV irradiation, activation energies, **72:** 1198
Ulceration—gastric mucosa, rat, aspirin and copper aspirinate, comparison using protein-bound dye and histology, **72:** 1457
Ultrafiltration—ampicillin solutions, use with pyrogen tests to detect trace amounts of endotoxin in antibiotics, **72:** 739
Ulva pertusa—inotropic effects of extract fractions (adenosine), cardioinhibitory effects, **72:** 945
Unesterified fatty acids—plasma, changes after blood collection from pregnant women, **72:** 716
Urine flow—dependence of renal clearance, mathematical model, application, reabsorption, **72:** 154
Urokinase—immobilization on agarose matrices, effect on spacer length, enzyme activity, **72:** 225
Urushiols—poison ivy and poison oak, synthesis of saturated congeners, **72:** 792
USP analysis—chlorthalidone and degradation products, comparison with a high-performance liquid chromatographic assay, **72:** 924
USP Apparatus 2—repeatability of dissolution results, prednisone tablets, effect of dissolved air in medium, **72:** 1061
USP dissolution test—correlation of air concentration in medium to dissolution results, Apparatus 2, **72:** 1061

V

Vacuum bleeding apparatus—serial blood collection from unanesthetized guinea pigs, **72:** 975
Vacuum/purge fillers—method for predicting fill weight variation when packing powders, **72:** 119
Vascular access—rat, literature survey, **72:** 465
Vidarabine—vaginal membrane permeability in mice, diffusion barriers, effect of the estrous cycle, **72:** 674
Vincristine sulfate—high-performance liquid chromatography, preformulation studies, degradation, **72:** 535
Viscoelastic behavior—compacts of drugs and direct compression excipients, **72:** 342
Viscoelasticity—properties of anhydrous lanolin, determination by dynamic mechanical testing, **72:** 415
—properties of anhydrous lanolin determined by dynamic mechanical testing, temperature–frequency equivalence, superposition of parameters, **72:** 422
***In vivo–in vitro* correlation**
—sodium phenytoin capsules, dissolution, **72:** 306
***In vivo–in vitro* correlations**—papaverine, phenytoin, and sulfisoxazole using a commercial dissolution simulator, **72:** 681

W

Wagner–Nelson equation—drug absorption, **72:** 838
—modification, multiple-dose regimens, one-compartment model, **72:** 578
Warfarin—phenolic metabolites, new high-yield synthetic method, **72:** 830
—stereospecific quantitation in plasma, high-performance liquid chromatography, **72:** 921
Water-soluble additives—effect on water sorption into silicone rubber, **72:** 316
Whole blood—analysis, hydralazine, high-performance liquid chromatography, **72:** 693

X

Xanthene-9-carboxylic acid—degradation product, new method of high-performance liquid chromatographic assay of propantheline, **72:** 96
X-Ray crystallography—analysis of *N*-substituted nortropane spirohydantoins, **72:** 881
X-ray diffraction—Zn(II)–aminophylline, release rate of theophylline, potential for use in oral preparations, **72:** 348
Xylene—emulsions with octoxynol 9, stability, effect of added electrolytes, **72:** 1427

Z

Zn(II)–aminophylline—structure determination by X-ray diffraction, release rate of theophylline, potential for use in oral preparation, **72:** 348